

OMIP 89-32.

Report on the Exploration
Program
Conducted on the TBS - Zavitz Property
Zavitz Township,
Northeastern Ontario

for

TBS Resource Developers Inc.



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INTRODUCTION

In the late spring of 1989, E.H. van Hees Geological Services Inc. was contracted by TBS Resource Developers Inc. to conduct an exploration program on a group of claims in the Porcupine Mining Division, District of Sudbury. The claims covered by the program, make up part of a larger claim block located in the south-east corner of Zavtiz Township and the south-west corner of Hincks Township.

The program covered by this report includes a two station VLF-EM survey, a Total Field Magnetic survey, a two frequency Max-Min Electromagnetic survey, an Induced Polarization + Resistivity survey, a geological mapping/prospecting survey, and overburden stripping with detailed mapping and channel sampling.

Of the thirty-two (32) claims making up the entire claim block, twelve (12) were covered by the surveys, with most of the work concentrated on the eight (8) claims which are either partially or wholly covered by the grid. The work was completed between mid-May, 1989 and mid September, 1989.

This report describes the method and results of the exploration program.

PROPERTY DESCRIPTION. LOCATION AND ACCESS

The TBS-Zavitz Property is located in both Zavitz and Hincks Townships and is comprised of thirty-two (32) claims. The claims in Zavitz Township are in the South Porcupine Mining Division, District of Sudbury, Northeastern Ontario; the claims in Hincks Township are in the Larder Lake Mining Division, District of Sudbury, Northeastern Ontario. The claims are approximately 32.5 km west-north-west of the town of Matachewan, and approximately 51.2 km south-south-east of the city of Timmins. See figures 1, 2 and 3 for property location.

A total of twelve (12) contiguous claims were wholly and/or partially covered by the surveys described in this report. The claims involved are listed in Table 1. Abstracts for the claims can be found in Appendix A.

Table 1. Schedule of Claims

	Claim #	Date Rec	orded	Assessment	Due Date	Area
P	1027468	Oct. 28,	1987	0 days	Oct. 17, 198	8 40 acres
	1027469	Oct. 28,		0 days	Oct. 17, 198	8 40 acres
	1027470	Oct. 28,		0 days	Oct. 17, 198	8 40 acres
	1027471	Oct. 28,		0 days	Oct. 17, 198	8 40 acres
	1027472	Oct. 28,		0 days	Oct. 17, 198	8 40 acres
	1027473	Oct. 28.		0 days	Oct. 17, 198	8 40 acres
	1027474	Oct. 28,	1987	0 days	Oct. 17, 198	8 40 acres
	1027475	Oct. 28,		0 days	Oct. 17, 198	8 40 acres
	1027476	Oct. 28,		0 days	Oct. 17, 198	8 40 acres
	1027477	Oct. 28,		0 days	Oct. 17, 198	88 40 acres
	1027478	Oct. 28,		0 days	Oct. 17, 198	
	1027479	Oct. 28,		0 days	Oct. 17, 198	

Note: Extensions were granted till the end of October, 1989, for filing of assessment work.

Access to the property is generally good, though during winter months area roads may not be plowed regularly. Several routes to the property exist. The simplest route begins in Matachewan where highway 561 can be followed for approximately 30 km to the west. From here, a well used timber access road is followed for approximately 20 km further to the west to the Moray Lake turnoff on the north side of the road. This last road is followed for approximately 1.5 km to Moray Lake which is covered by the south part of the claim block.

A second route from Timmins exists and is actually the continuation of the road followed from the end of highway 561. Pine street in Timmins can be followed south from the city centre for approximately 5 km were it turns into a well used forestry access road. This road is followed for approximately another 55 km to the Moray Lake turnoff.

Another route can be followed by travelling the old
Langmuire Mine road south from the town of South Porcupine (west
of Timmins), past the Langmuire Mine and to the forestry access
road mentioned in the previous two routes.

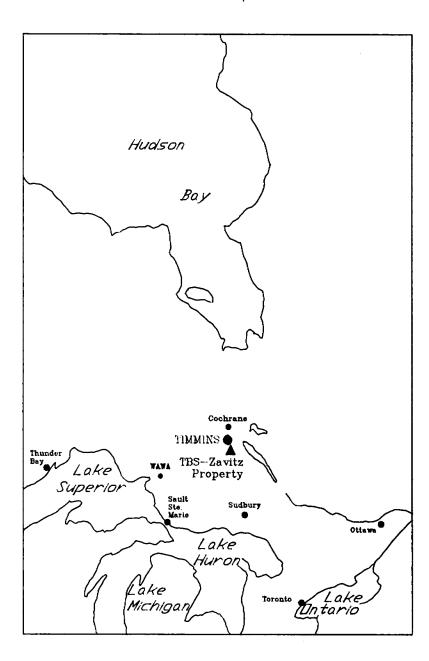


Figure 1. Regional Location Map

for Established

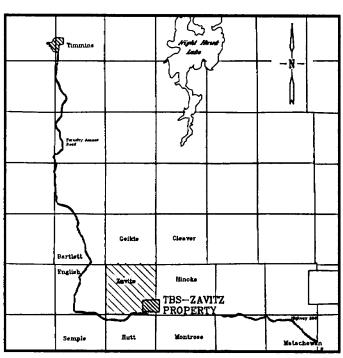
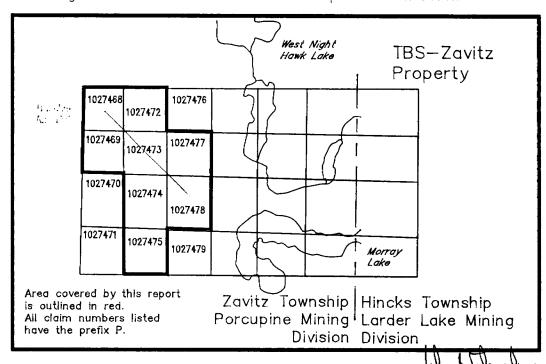


Figure 2. Property Location Map

Figure 3. Claim Sketch of the Complete Claim Block



TOPOGRAPHY AND RESOURCES

The ground covered by the twelve (12) claims is generally of low relief with gently rolling sand eskers and local rock outcroppings. The south-west portion of the ground is generally dry with local swampy areas. The centre portion is both swampy and exposed rock. The north-east portion is generally swampy. Clay is the main soil type away from the sand eskers and drainage is generally to the east.

In the past, the area has been logged, and consequently trees are generally fairly young. Tree types vary depending on the ground conditions. In the south-west, the main tree types are spruce, jackpine and some scotch pine. In the centre, the main tree types are spruce and poplar. In the north-east, the main tree types are spruce, alders and poplar. Birch is also found throughout.

Other than tourism and trapping, little economic activity is apparent in the immediate vicinity of the property. Logging is still practised within the region but has already covered the claim block. The nearest industrial centres are the town of Kirkland Lake and the city of Timmins. Both centres have economies based primarily on mining and most resources necessary for mining and exploration can be found in either place. The nearby town of Matachewan is a past producing gold town, with limited resources.

SUMMARY OF PAST EXPLORATION

The property has been subjected to a fair amount of exploration activity in the past. A total of ten companies have explored the area, dating back to 1939. Exploration has found three (3) gold showings within the entire 32 claims. These showings have since been named the Fiset Showing, the Noranda Showing, and the Voyager Showing. The twelve (12) claims discussed in this report cover the Voyager showing.

In 1964, Voyager Explorations Ltd., completed a geophysical program that involved an EM survey and a magnetometer survey on the Voyager Showing. The purpose of the surveys was to cover a massive sulphide zone discovered during logging operations (Tremblay, 1986). Follow up drilling, involving six (6) diamond drill holes totalling 1,819 feet, produced a significant assay of 0.33 ounces per ton over a length of 4.0 feet (Mazur, 1988).

Pan Ore Gold Mines Ltd. conducted a geophysical program on both the Voyager Showing and the Fiset Showing in 1974. Induced Polarization, electromagnetics and magnetics were completed. Follow up drilling did not involve the Voyager Showing.

Rio Tinto Canadian Exploration Ltd. drilled three holes in 1975 on the EM anomalies delineated by the Pan Ore surveys, under an option agreement with Pan Ore. Three other holes were drilled on the Fiset showing for a total of 2,940 feet.

Between 1978 and 1980, Newmont Exploration of Canada completed the most comprehensive program on the property

involving I.P., EM and total field magnetics. Seven holes totalling 1,422 metres were drilled, two of which were on the Voyager Showing.

The last activity on the property prior to the current programs was completed by 635540 Ontario Inc., in 1985, but did not involve the Voyager Showing.

REGIONAL GEOLOGY

The region of the Zavitz property is located near the southern edge of the Abitibi Greenstone Belt, and was first looked at in significant detail by H. C. Rickaby in his 1932, Ontario Department of Mines Report Bannockburn Gold Area, which covered Zavitz and English Townships. It was remapped in 1972 by D. R. Pyke, along with several surrounding townships, and is described in his 1978, Ontario Geological Survey Report, Geology of the Peterlong Lake Area. A third examination was completed by E. G. Bright, in his 1968 Preliminary Map Number P.455 and in his 1984, Geological Survey Report, Geology of the Ferrier Lake - Canoeshed Lake Area, District of Sudbury, Ontario. The two most recent reports best describe the general geology of the region with Pyke's geology map number 2345 providing the best illustration for the region, and Bright's preliminary map for the township.

Quartz diabase dykes intrude all other rocks in the area.

These dykes strike generally north-east and are Middle

Precambrian in age (Pyke, 1978). They are succeeded by another

phase of diabase intrusions during the Late Precambrian which are distinguished from the earlier phase by being olivene rich and striking north-west.

The next youngest rocks of the area are a narrow band of Middle Precambrian (Huronian) sediments located east of the Zavitz property in Hincks Township. This band strikes north with flat to moderate, easterly dipping beds of greywacke, arkose, and conglomerate.

A third phase of diabase intrusions occurred in the Early Precambrian (Archean). These dykes have a general north-south strike.

Other intrusive rocks include gabbros and batholiths in the surrounding regions. The Peterlong Lake Complex is the dominant batholithic intrusion and is located well to the west of the property. Locally, the Geikie Pluton, north of the property has had a more direct effect. This pluton is most likely the source for syenite, felsic porphyries and diorite intrusives found within the claim block.

Both Pyke (1978), and Bright (1984), have decerned two cycles of volcanism. Both cycles consist of an underlying ultramafic unit overlain by a mafic unit, and topped by an intermediate to felsic unit (Pyke, 1978). Zavitz Township is underlain by the younger cycle, while the older cycle is exposed further to the west. The Halliday Dome, south of the property, is believed by Pyke (1978), to be the volcanic centre. Both cycles are Early Precambrian (Archean) in age and the overall

stratigraphic trend is east-west.

See Table 2 for Table of Formations.

Table 2. <u>Table of Formations</u> (after D.R. Pyke, 1978)

PHANEROZOIC CENOZOIC

QUATERNARY

PLEISTOCENE AND RECENT
Clay, sand, gravel, swamp and stream deposits

UNCONFORMITY

PRECAMBRIAN
LATE PRECAMBRIAN
MAFIC INTRUSIVE ROCKS

INTRUSIVE CONTACT

MIDDLE PRECAMBRIAN
MAFIC INTRUSIVE ROCKS
Quartz Diabase

INTRUSIVE CONTACT

HURONIAN SUPERGROUP

COBALT GROUP

Gowganda formation

Greywacke, arkose, greywacke and argillite,

conglomerate

UNCONFORMITY

EARLY PRECAMBRIAN
MAFIC INTRUSIVE ROCKS
Diabase

INTRUSIVE CONTACT

FELSIC INTRUSIVE ROCKS

Porphyritic hornblende monzonite; porphyritic hornblende granodiorite; hornblende-biotite trondhjemite, biotite-hornblende trondhjemite, diorite and quartz diorite, biotite granodiorite, porphyritic hornblende diorite, leucocratic granodiorite and alaekite; quartz-feldspar porphyry, trondhjemite

Table 2. (Continued)

INTRUSIVE CONTACT

METAMORPHOSED MAFIC AND ULTRAMAFIC INTRUSIVE ROCKS
Gabbro, gabbroic anorthosite, pyroxinite,
serpentinized peridotite, peridotite largely
altered to talc-carbonate, quartz gabbro

INTRUSIVE CONTACT

METAVOLCANICS AND METASEDIMENTS
Intermediate to Felsic Netavolcanics
Tuff and lapilli-tuff, volcanic breccia, massive and pillowed flows, variolitic flows, interlayered siltstone and greywacke, garnet-and-staurolite-bearing tuffs

Mafic Metavolcanics

Nassive and pillowed flows, variolitic flows, tuff
and lapilli-tuff, volcanic breccia, amphibelized
and gneissic lavas, pyroxene spinifex-textured
flows, tremolitic-(low fe) bearing flows and

pyroclastic rocks

Ultramafic Netavolcanics

Massive polysutured serpentinized peridotite,

spinifex textured flows, tuff and lapilli-tuff,

cummingtonized flows, steatized and carbonatized
peridotite

The area is pervaded by numerous folds due primarily to the large batholithic complexes and plutons. The main structure in the immediate vicinity of the property is a large, east to northeast striking syncline located to the north-west. A lesser anticline, striking north-north-east has been interpreted by Bright (1968), just north of the claim boundary and south of the

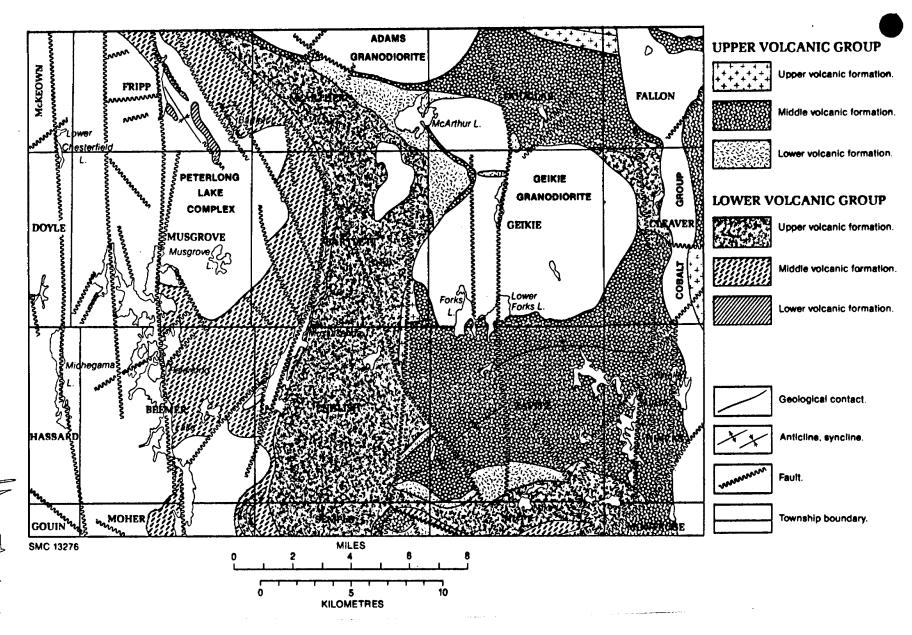


Figure 4. Regional Geology of the TBS-Zavitz Property (After D.R. Pyke, 1978)

syncline. Other, lesser synclines and anticlines are indicated by Pyke (1978), to be present across the claim block.

Two main faults are present to the west of the property. The Burrows-Benedict Fault is the closer of the two and is a major north-south striking break that can be traced northward through the Timmins gold camp (Tisdale Township). Further to the west is the Scott Lake Fault which strikes to the north-west with dextral displacement (Pyke, 1978). Two north-west striking faults bound the property on the north-east and south-west sides (the latter may have some influence on the Voyager Showing). The western fault is dextral and the eastern fault is sinistral (Pyke, 1978).

See Figure 4 for a representation of the regional geology.

PROPERTY GEOLOGY

Bedrock exposure on the property is poor, less than 10%, and restricted to the north-west end of the property grid.

H. Tremblay best describes the property geology in his 1986 report based on geological mapping, diamond drilling and geophysics conducted by Newmont Exploration of Canada Ltd. in 1980. Tremblay records the stratigraphy of the Voyager Showing as striking north-north-west primarily based on pillow tops, graded bedding and geophysics. The units from north to south are described to be; ultramafic to mafic volcanics with intercalated mafic tuffs, intermediate to felsic tuffs and argillites

(underlying most of the showing); intercalated graphitic tuffs and argillites with some volcanic flows (south of the showing); and ultramafic volcanics with some intermediate to felsic volcanics (south edge of the total claim block).

Syenite and diorite plugs are the most likely source for the dykes and dykelets of similar compositions found throughout the showing. Syenite is exposed in the north-west corner while a diorite plug is interpreted from past geophysics to the southeast. These plugs are believed to strongly affect stratigraphic attitudes (Tremblay, 1986).

Tremblay, using geophysical trends delineated from the Newmont I.P and magnetic surveys, along with pillow tops from Newmont's mapping and graded bedding from a Newmont diamond drill hole, an anticline as striking west-north-west across the Voyager section of the property with its axis just to the south-east. This complies with Bright (1968), who interprets an anticline on the west side of the western property fault and along strike from Tremblay's fold.

Also interpreted from geophysics is a north-west striking fault traversing the claim block just to the north-east of the Voyager Showing. This fault may mark a contact between the volcanic sequence described above and an extension of the syenite plug also described above (Newmont Geology Map, 1980).

The recent total field magnetic survey and VLF-EM survey appear to confirm this geology in general, but with some differences. From the magnetic data, the fault interpreted from

geophysics as marking the contact between a syenite intrusion and mafic volcanics is more likely a geologic contact between ultramafic volcanics to the north-east(instead of syenite) and mafic volcanics to the south-west. A north-west fault does appear to traverse the claim block as suggested by results from the most recent VLF-EM survey (Walmsley, 1989) and may mark part of the contact but actually appears to extend into the volcanics themselves to the north-west.

The VLF-EM delineated the tuff/argillite unit described above along the south edge of the grid. In addition, an east-north-east striking fault seems to dextrally displace the unit. This fault is terminated by the north-west striking fault just described.

METHOD OF SURVEYS

A metric grid was established across the Voyager Showing to provide control for both geophysical surveys and geological surveys. Lines were cut on 100 metre centres with lines on 50 metre centres across most of the central section. The baseline has an azimuth of 135° with gridlines running perpendicular to this. Stations are marked with standing pickets every 25 metres along the gridlines and every 50 metres along the baseline.

Geophysics

Magnetics and VLF-EM

The instrument used for both the total field magnetic survey and the VLF - EM survey was a Scintrex IGS IV. This instrument is computer driven and provides automatic storage of data within its memory. Although it also allows the simultaneous recording of 2 magnetic readings (gradient and total field), and up to three station VLF readings, the mag survey was completed on different traverses from the VLF in order to meet assessment requirements. During both surveys the operator was Bruce Pigeon of Timmins, Ontario. The surveys were completed between the beginning and end of June, 1989.

Specifications for the Scintrex Integrated System can be found in Appendix B.

The magnetic survey recorded total field magnetic data. A total of 529 readings were taken with the operator always looking north at stations every 25 metres and with readings every 12.5 metres when an anomalous area was discerned. A base value of 58,000 nT's was assigned the instrument for tuning but was not subtracted from the recorded values.

A second Scintrex magnetometer was used as a base station to provide data for diurnal drift corrections. This instrument is equipped with a cycling mode that was set to take and store readings every 5 seconds. The base station was set up off the

grid to the south-east, away from any magnetically anomalous areas.

At the end of each day's survey, both the field mag and the base station mag were cabled together and the readings were automatically corrected for diurnal drift. The corrected data was then "dumped" from the field mag onto a computer. Utilizing Geopak's geophysical software, data from the completed survey was then compiled and a contour map was produced at a scale of 1:2500. Contour intervals vary between 50 nT's and 100 nT's in order to enhance anomalous trends.

The VLF - EM survey was carried in much the same way as the mag survey with a similar number of readings. Readings were taken every 25 metres with 12.5 metre stations where required. Two transmitting stations were read at each station during the same traverse. The stations read were Cutler, Maine (NAA, frequency 24.0 KHz) and Annapolis, Maryland (NSS, frequency 21.4 KHz). Both stations were read with the operator looking towards the transmitting tower which is the equivalent to the 90° rotation to the north for NAA and to the east for NSS when using an EM-16 VLF receiver.

Data was dumped at the end of each day on to a computer. At the end of the completed survey, the data was compiled with Geopak's geophysical software and profile maps (with both inphase data and quadrature data profiles on each map) for both transmitting stations were produced at a scale of 1:2500 and a

profile scale of 1 cm = 5%. The in-phase data was also subjected to a low pass filter calculation (Fraser Filtering). This manipulated data was then contoured and plotted on maps at a scale of 1:2500, and a contour interval of 5%, using Geopak's software. Only the positive values of the Fraser Filter data were contoured.

Max-Min Survey

The Max-Min survey was completed with an Apex Max-Min II instrument and a coil separation of 100 metres. Frequencies 444 Hz and 1777 Hz were used for the survey. Readings were taken every 25 metres with 12.5 metre readings taken where conductors were delineated in the field. Readings were recorded in a field book and then entered onto a personal computer. The data was then plotted at a scale of 1:2500 on a Calcomp Plotter using software by Geopak.

Induced Polarization + Resistivity

The induced polarization and resistivity survey was subcontracted to Remy Belanger Inc. of Rouyn, Noranda. A frequency domain system was used with a dipole-dipole configuration and an "a" spacing of 50 metres. Readings were taken to the N=4 level, with the N=5 level being read where required, and the results plotted on pseudosections by the contractor. Interpretation was also provided by the contractor. In addition to the resistivity values and frequency (phase)

values being plotted, a third metal factor value was also provided. This is a calculated value involving the resistivity and the phase values.

The I.P. and Resistivity survey was completed during the first part of July, 1989, and the Max-Min survey was completed during the last part of July, 1989.

Geological Mapping/Prospecting

The geological mapping/prospecting survey was carried out in two parts between July 15 and August 31, 1989. First, a detailed geological survey was conducted on the area of the claim block covered by the grid that was established to provide control for both geophysics and mapping. Traverses were made along the gridlines by a contract geologist, J. Gravel, who was assisted by geological technician K. Stewart. The assistant walked the gridlines while the geologist made short traverses on either side of the line to cover as much ground as possible.

The second part of the mapping/prospecting program was carried out by the author and involved the remainder of the ground not covered by the grid. North-south traverses were made at 100 metre intervals. Pace and compass traverses were made due to the lack of grid control, with the grid being tied in wherever possible. The area previously mapped was excluded from this part of the program.

Sampling of bedrock was done wherever mineralization and/or alteration indicated. Samples were assayed for gold (in ppb's), silver (in ppm's), copper (in ppm's), zinc (in ppm's), and nickel (in ppm's).

During both parts of the survey, an effort was made to tie in all claim lines and claim posts that could be found. A record was kept of any old posts that were located (see geological map in back pouch).

Overburden Stripping

Trenches to be stripped were laid out by E.H. van Hees with some additions and alterations made by the author. The I.P results provided the main basis for the trench locations, with the other geophysical programs and field observations serving as backup information.

Stripping was done using a Caterpillar D-7 bulldozer.

Though the program was originally scheduled to begin near the end of July, 1989, equipment availability and forest fire restrictions delayed start-up until early August. The work performed by the heavy equipment was completed by the end of August.

Washing of the trenches followed the stripping. Washing was done using shovels and a Wajax pump and was completed shortly after the bulldozer work.

Detailed mapping of the trenches was completed in late

August and early September. The trenches were mapped at a scale

of 1:100, with some of the longer trenches being mapped at a scale of 1:500. During mapping, a paced VLF-EM traverse was made along the strike of each trench to locate the anomaly on surface.

An EM-16 VLF receiver was used for the traverse.

Channel samples were laid out where mineralization and/or alteration was significant. Sampling was completed by mid-September using a Stihl rock saw and hammers and chisels.

Assaying of samples was for gold, silver, nickel, copper and zinc.

DISCUSSION AND RESULTS

The geophysical surveys illustrate good correlation between the different methods used, particularly the magnetics and the VLF-EM. These two surveys delineated six (6) moderate to strong anomalies, labelled "A" through "E'". The Induced Polarization survey confirmed and possibly linked two of the anomalies ("B" and the southeast extension of "A"). The Max-Min results were less definitive than the other surveys, but it did pick-up and confirm the location of the strongest part of one of the anomalies ("A").

The anomalies discerned by the program are summarized below.

Anomaly "A"

This anomaly may actually be two. The magnetic data shows a continuous magnetic "ridge" extending from about line 150 North •

350 East to line 600 South • 25 West, where it seems to divide with one branch striking to the east off the grid, and the other striking to the southwest and terminating on line 700 South • 100 West. A small "nipple" apparently strikes northwest from the bend in the anomaly at line 100 South • 50 West. The southeast extent of this anomaly, from the point of the bend has an associated, two station VLF-EM anomaly that shows a continuous feature from line 100 North • 125 West to line 600 South • 25 West, the northwest extent of which is associated with anomaly "B".

Anomaly "A" was not broken down initially because of the break between the nipple and the magnetic high to the northwest of the nipple. After studying the other geophysical results, a more likely interpretation would put Anomaly "A" being terminated by Anomaly "B" at Line 100 South, and that the southeast extent of "A" is actually the southeast extent of "B".

Anomaly "B"

Anomaly "B" is the strongest anomaly and was detected by all the various geophysical methods employed, though the Max-Min survey only picked it up on two lines. It appears to be a fairly narrow, near vertical feature that can be traced from line 100 North @ 75 West to line 500 South @ 25 West. It is strongest on line 0 just south of the baseline where known trenches of sulphide mineralization have been uncovered. This is probably the sulphide zone referred to in past literature. The two lines

picked up by the Max-Min survey discern that there may be at least two parallel conductors present, making interpretation too complex to be relevant.

The IP survey also indicates this anomaly as being the strongest and detected it much better than the Max-Min. This may indicate that the mineralization is disseminated to semi-massive rather than massive.

All surveys show a gradual weakening of the anomaly towards the southeast. The cause of this probably due to increasing overburden depths.

To the northwest, this anomaly bends sharply to the west for the last two lines. The reason is not obvious but may indicate that the bend is a separate anomaly caused by a mineralized fault zone. This part of the anomaly has a strike concordant to anomaly "D" which has also been interpreted as a possible fault zone. The strength of the associated Fraser Filter values along with a magnetic high (though spotty), may indicate the zone is mineralized. Other Fraser Filter high spots to the east of and along strike from the bend may indicate that the fault continues in that direction.

Anomaly "C"

The strongest magnetic anomaly is located on line 800 South between 500 West and 600 West. Being on the edge of the grid and consequently having little information, it is difficult to speculate as to its cause.

Anomaly "D"

This anomaly is delineated by a Fraser Filter high striking easterly from about line 50 North • 300 South to where it is apparently terminated by anomaly "B" on line 300 South • 75 West. Data has been extrapolated across a pond on line 100 South to show one continuous feature. An associated magnetic high may also correlate to this VLF anomaly, but continuity is not apparent due to the pond. An IP response was also obtained at one point on line 0 • 225 West.

Due to an apparent offset in Anomaly "E", the source for this anomaly is probably a fault. The moderate strength of the Fraser Filter, the associated magnetic high, and the IP response, indicate that the fault is most likely mineralized with pyrite and pyrrhotite.

Anomaly "E" and "E'"

These two anomalies are probably the same feature and have been dextrally displaced by the fault described as anomaly "D". They strike southeast from line 300 North @ 225 West, to line 400 South @ 275 West. It is a Fraser Filter anomaly with no definite associated magnetic anomaly. From Newmont diamond drilling, a graphitic argillite/tuff unit is known to exist under this part of the property and is most likely the anomalies source.

A general Fraser Filter high appears to underlie the northeast part of the grid. The most likely cause for such a

pervasive feature is conductive overburden. This area is quite wet and swampy, with clay overburden.

Geological Mapping/Prospecting

Rock exposure on this part of the property was found to be limited to the central and north-west end of the control grid. Overburden to the north-east was too deep and swampy while deep sand covered the bedrock to the south. Less than 10% of this part of the claim block is outcrop.

Results from the grid mapping delineated five (5) main rock types; 1) syenite, 2) porphyritic syenite, 3) ultramafic volcanics, 4) mafic volcanics, 5) mafic to intermediate volcanics.

A sixth rock unit has been identified in drill core as an intercalated, graphitic tuff and argillite with minor pyrite and pyrrhotite mineralization. This unit is believed, primarily from geophysics, to underlay the south-west side of the grid where a VLF-EM Fraser Filter high exists.

From geophysical results, a seventh unit has also been interpreted. The recently completed total field magnetics survey discerned a moderate magnetic high in the north-east part of the grid. This high is 100 to 200 nTs higher than the remainder of the grid and is fairly pervasive under the whole north-east area. This, along with the sharp "geophysical contact" with the south-west areas, suggests that the cause may be an ultramafic unit. If this is the case, then the ultramafic contact interpreted by

Bright (1968) to the north of the claim block, is probably further south than first thought and is actually on the property.

The mafic volcanics observed in outcrop are generally massive, fine to medium grained, medium dark green, moderately to fairly soft, with pervasive chlorite alteration typical of Archean Greenstone terrains. Ubiquitous pyrite is generally fine grained and disseminated throughout the rock, and less than 1%. The weathered surface is dark brown-green, soft, and moderately deep.

The ultramafic volcanics are dark green, massive, medium grained, soft, with moderate to strong chlorite alteration.

Pyrite is present as in the mafic volcanics, and the rock is non-magnetic. The weathered surface is dark green to brown-green, soft and fairly deep (> 0.25 cm).

Only one, very small outcrop of intermediate volcanics was found in the south-east corner of the grid. It is located at the south end of line 700 South. The rock is massive, medium grey green in colour, moderately hard, with weak chlorite alteration and up to 10% leucoxene flecks throughout. No mineralization was observed and weathering is light grey-green with a shallow weathering rind.

The syenites are generally medium dark brownish pink to greyish pink, and occasionally reddish in colour. They are moderately hard, fine to medium course grained depending on size and distance from contacts. Gravel describes the porphyritic syenite as being similar in appearance to the massive syenite but

with up to 5% quartz eyes, and up to 20% (plagioclase) feldspar phenocrysts. The two types are probably two phases of the same event. Both occur as dykelets usually less than 2.0 metres wide. Mineralization is either absent or locally less than 1% pyrite. Weathering is generally shallow, and the surface is bleached.

Other than ubiquitous pyrite, mineralization includes secondary pyrite and pyrrhotite. Some sphalerite mineralization was suspected in the trench located on line 0 North just south of the baseline, but assays from the samples taken produced a value of only 70 ppm zinc.

Very little alteration was observed other than chlorite.

Some weak, pervasive to spotty carbonatization was found locally in some outcrops, especially near the trench on line 0 North.

Reaction to HCl was weak. Other alteration includes:

1) epidotization in stingers (with very weak associated hematite halos) predominantly in the ultramafics; 2) serpentinization in stringers in the ultramafics; and 3) minor quartz/carbonate veinlets and stingers in all rock types, with weak silicified and carbonatized halos and generally no visible mineralization.

The attitude of the stratigraphy is not apparent from this program due to the limited amount of rock exposure. However, from previous mapping on this and other parts of the claim block, and from geophysical results and diamond drilling data, the overall trend appears to be north-west to west-north-west, with moderate to steep north-east dips.

All the rocks mapped have some degree of foliation or lineation with the strongest foliation being around the central part of the grid (line 50 South). The predominant attitude for the foliation is north-east with very steep to near vertical east dips with a few measurements showing a steep west dip.

The second strongest foliation trend has a south-east strike and a south-west dip. This attitude was observed in an ultramafic rock in the north-west corner of the area.

The direction of the strongest foliation is approximately the strike of a fault that has been interpreted from geophysics completed by E.H. van Hees Geological Services Inc. (Walmsley, 1989). This fault is believed to be dextral and extends from the south-west end of line 100 North to about 50 West on line 300 South. The most graphic evidence however, is the apparent offset of the VLF-EM Fraser Filter high believed to be associated with the graphitic argillite/tuff unit along the south-west edge of the grid, and the north-east striking Fraser Filter high on the Cutler frequency, believed to be the fault itself.

Foliation and misalignment of the narrow ultramafic unit between lines 50 South and 100 North and the sharp bend at the north-west end of Anomaly "B", are possible physical evidence for a second fault, with near the same strike as the first.

Both faults are abruptly terminated by a very strong, southeast striking Fraser Filter anomaly on both VLF-EM channels. This feature has also been interpreted as a possible fault, and due to its size and strike, may be the break interpreted by Pyke (1978) to be just to the west of the property. The brecciated volcanics observed in the trench (see below) on line 0 North tends to support its existence, and the amount of sulphide mineralization present would explain the strength of the associated anomaly (Anomaly "B" and the south-east extent of Anomaly "A", Walmsley, 1989).

The trench on line 0 North, just south of the baseline, that is mentioned above, is probably the area of most interest on this part of the property and is most likely the sulphide zone described in literature. Exposure is poor and a clear idea of the structure is not possible. What was observed is a semimassive (10% to 15%) sulphide zone of pyrite and pyrrhotite (about 60/40 pyrite/pyrrhotite), in what appears to be a mafic volcanic breccia. Sphalerite may also be present, but assay results proved negligible zinc. Mineralization is in stringers, as disseminated patches, and with the pyrite also as disseminated, subhedral to anhedral crystals.

That the breccia is tectonic is supported by the subangular to subrounded nature of the fragments and that some degree of rotation has occurred. The rock is fairly hard, rust weathered, with weak, pervasive to spotty carbonatization and about 1% quartz/carbonate stringers and veinlets.

A total of 21 samples were taken and assayed during the program. Gold was not found in even trace amounts in any of the samples. A value of 0.4 ppm silver was returned from sample

14214, taken from the sulphide trench. No other silver values were obtained. This sample also returned the highest copper assay of 774 ppm and the highest nickel assay of 134 ppm. Other copper values range between 43 ppm to 179 ppm; other nickel values range from 23 ppm to 77 ppm; and zinc values range from 25 ppm to 81 ppm. A complete list of assay results can be found in Appendix C along with sample locations.

Overburden Stripping

A total of six (6) trenches were successfully stripped to bedrock. Other trenches were attempted but overburden was too deep. Results on the whole were disappointing, with the target conductor being exposed in only two places (Trenches 2 and 3). In all, twenty-seven channel samples were cut and assayed for gold (opt), silver (opt), copper (%), zinc (%) and nickel (%). The only anomalous value came from a quartz-carbonate vein with a 0.15 metre wide bleached halo located in the south-central part of Trench #1 (sample 16901). The sample returned a value of 0.011 opt gold (average of two values) over a width of 0.25 metres.

The stripping confirmed that the breccia zone is probably tectonic in origin. An attitude was difficult to determine from the limited exposure. In Trench #3, the strike is apparently northwest, concordant to stratigraphy, with a northeast dip of about 40° . In Trench #2, the strike at the west side of the exposed rock is also apparently northwest with a near vertical

dip, but in the rest of the outcrop, mineralization appears to be an irregular pod with limited depth.

The mineralization in both trenches is pyrite > pyrrhotite, with the sulphides making up about 30% of the breccia matrix. Sulphides are also partially replacing the edges of some fragments. Garnet porphyroblasts were also noted in hand samples.

The VLF-EM traverses that were made during the mapping confirmed the location of the anomaly. Only in Trenches 2 and 3 and to a lesser extent in Trench #4, was there any sign of the conductor coming to surface. A strong cross-over was located just north of the weak, anomalous gold sample taken from Trench #1, but there is no surface expression of a conductor. Further to the east, the anomaly trace was located just north of the stripped areas, in deep overburden.

The western two trenches were known at the outset to be just north of the conductor. They were stripped in attempt to expose possible peripheral alteration that may accompany the anomaly. They were also in area of numerous syenite and feldspar porphyry dykes. These dykes have been reported as being auriferous (Tremblay, 1986), and for this reason were exposed and sampled. Though disseminated pyrite was found in a few dykes (<1%), none of the assays returned significant results.

Appendix "C" has assay certificates for the channel sampling. Appendix "D" has the detailed geology sketches of the trenches.

CONCLUSIONS AND RECOMMENDATIONS

From the results of the program, it can be concluded that several anomalous areas exist and require more exploration in order to determine their economic potential. These areas are:

- 1) Anomaly "B" Line 0 North interpreted to be a sulphide breccia zone and possibly a major fault zone. It is well mineralized and though it has been exposed on surface by trenching, only a small part of it has been tested. Poor assay results may be in part due to deep oxidation of the bedrock surface making fresh samples difficult to obtain. The westerly bend that the anomaly takes at this point has been interpreted as a possible lesser fault. The zone of weakness created by the junction of the two structures may be the cause of the localized mineralization found in the trenches.
- 2) Anomaly "B" Line 300 South there is an apparent intersection of two possible structures, though it is difficult to tell exactly where the two meet (Anomalies "B" and "D"). The intersection of two faults would most likely cause a large area of weakness, allowing mineralized fluids to penetrate deep into the host rocks. Sulphide mineralization exposed in the trenches to the northwest indicates that well mineralized fluids have travelled along the main structure.
- 3) Anomaly "D" this feature has been interpreted as being a possible lesser fault zone with localized mineralization. Of particular interest is the IP response on line 0 North.
- 4 & 5) Of lesser priority are Anomalies "A" and "E"+"E'".

 "A" is believed to be a contact between mafic volcanics to the southwest and ultramafic volcanics to the northeast. Annapolis Fraser Filter values and a high magnetic ridge associated with the VLF-EM indicate the contact may be mineralized.

 Mineralization is known to exist in Anomalies "E"+"E'" from diamond drilling.

Diamond drilling, concentrated on the areas described above, is strongly recommended as a follow-up program. Four thousand feet of drilling would provide enough information to further narrow down any possible economic potential.

Three thousand feet should be considered to test Anomaly

"B". One thousand feet in two 500 foot holes (or any other combination) at the northeast bend of the anomaly where two possible faults intersect and mineralization has been observed on surface. One thousand feet in two five hundred foot holes (or any other combination) in the area where Anomaly "B" intersects Anomaly "D". One 500 foot hole to test the anomaly between the first proposed drill site and the second proposed drill site.

And one 500 foot hole to test the southeast extent of the anomaly.

One 500 foot hole should be located to test Anomaly "D" in the area of the offset of the graphitic argillite/tuff unit as well as testing the graphitic unit itself.

The final 500 feet should be held in reserve to allow for more drilling in any areas found to be important. If the other areas don't require more drilling, a hole should be drilled to test Anomaly "B" further along strike (southeast of line 500 South), or it could be used to test the ultramafic contact suspected to be mineralized in the northeast part of the grid.

Respectfully Submitted,

John R. Walmsley, B.Sc. Geologist

October 31, 1989 Sault Ste. Marie, Ontario

CERTIFICATE

With reference to my report on the exploration program conducted on the TBS-Zavitz Property for TBS Resource Developers Inc., dated October 31, 1989

I John R. Walmsley, of the City of Sault Ste. Marie, do hereby certify the following to be true and accurate to the best of my knowledge:

- 1) That I received my Geological Engineering Technician papers from the Sault College of Applied Arts and Technology in 1980,
- 2) That I received a B.Sc. degree in Earth Science, Geology Major, from the University of Western Ontario in 1984,
- 3) That I have been employed by various exploration companies since 1978,
- 4) That I am the author of the corresponding report, and have been actively exploring in the Timmins area for seven (8) of the past ten (11) years,
- 5) That I have no interest, direct or indirect, in the thirty-two claims comprising the property described in this report,
- 6) That I hold no interest or shares in the companies holding the property nor do I expect to receive such interest or shares in the future.

Dated this 318t day of Oct., 1989 Sault Ste. Marie, Ontario.

John R. Walmsley, B.Sc. Geologist

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Appendix A Claim Abstracts



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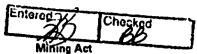
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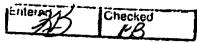
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Oct. 17/88		(OC5) Commissioner extends time until and including July 31, 1989 for work and filing thereof. (O8806.501	74)
		This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.	
		MAY 18 1999 Whit	
		Mining Recorder PORCUPINE MINING DIVISION	
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Mining Claim	Entered B	Checked BB

Ontario	Minir	ng Act				P-1027482		
Recorded in the Name of Daniel Bienias		Licence N		Receipt No.	October 28	October 28, 1987		
Address				<u> </u>	Date and Time of St	aking P.T.		
289 B Pine South, Timmins, Ont.					- Oct. 20 /87			
Office Use Only	Days	J	1	tion of Claim		· · · · · · · · · · · · · · · · · · ·		
Assessment Work Credits Assigned to other Claims	Recorded	Balance	Pance ZAVITZ TOWNSHIP - M 1189					
·				Sand, gra	Surface Rights reservativel and peat reserved. ID UNDER WATER	ion around all lakes and rivers		
;						File No.		

Date	Days Work		Receipt No.
Oct. 17/88	•••	(OC5) Commissioner extends time until and including July 31, 1989 for work and filing thereof. (O8806.5017)	1)
	<u></u>	This Abstract is a copy of the entries in the Becord Book and is not to be considered as assurance of the validity of the claim.	
		MAY 18 1989	
		Mining Recorder PORCUPINE MINING DIVISION	
		PONCOPINE WINAMO	
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Nort	stry of hern Development Mines	Mining Claim	Minin	ig Act				Claim No. P-10878!	 5 0		
Recorded in the		CALLISTER				Licence No. M-23728	Date Recorded October	17, 1988			
Address 124 Ta	marack St	reet, Timm	ins, O	ntari	• •		Date and Time of S Oct. 6/88	itaking	P.T.		
Office Use Only Assessment Work Credits Assigned to other Claims			Days Recorded	Balance		tion of Claim	TOWNSHIP M-1189				
					Reserva		ourface Rights reserve el and peat reserved.	ation around all la	kes and river		
								File No. R8806.5	0263		
Date	Days Work										
Oct.	17/88					M-23728) (A-17527	transfers).	100% to (T8806.5	50214)		
			This Reco	Abstract ord Book irance of	is a copy and is no the valid	of the entries in to be considered ty of the claim.	the das	· · · · · · · · · · · · · · · · ·			
					MY 18	1989		·			

Mining Recorder
PORCUPINE MINING DIVISION



Mining Claim

Mining Act

Claim No.

P-1087851

		Licence No.	Date Recorded				
RICHARD BRENT MCALLISTER M-23728							
ddress							
ins, O	ntari	. 0	Oct. 6/88	×			
Days		Description of Claim	AI: 13:00				
Recorded	Balance	ZAVITZ TOW	ZAVITZ TOWNSHIP M-1189				
				n around all lakes and rivers			
		INCLUDNG L	AND UNDER WAY	TER .			
			(F	ile No.			
		1	1	R8806.50263			
	Days	Davs	Days Recorded Balance ZAVITZ TOWN Reservations - 400 foot 5 Sand, grave	M-23728 October 1 Date and Time of Stak Oct. 6/88 AT: 13:00 Days Recorded Balance ZAVITZ TOWNSHIP M-118 Reservations - 400 foot Surface Rights reservation Sand, gravel and peat reserved. INCLUDING LAND UNDER WA			

Date	Days Work	
Oct. 17/88		(T10) Brent McAllister (M-23728) transfers 100% to Canadian Nickel Company (A-17527). (T8806.50214)
		This Abstract is a copy of the entries in the Record Book and is not to be considered as Record the validity of the claim.
		MAY 18,1989
		Mining Recorder PORCUPINE MINING DIVISION
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Mining Claim

Mining Act

Claim No. P-1087852

			14111111	ig Act				1-1001032	
ecorded in the Name of RICHARD BRI		CALLISTER					Date Recorded October	17. 1988	
dress	ARD BRENT MCALLISTER Tamarack Street, Timmins, Ontario Office Use Only twork Credits Assigned to other Claims To be a balance To be a bal						Date and Time of 8		
124 Tamara	CHARD BRENT MCALLISTER 4 Tamarack Street, Timmins, Ontario Cot. 6 AT: 1: Office Use Only Iment Work Credits Assigned to other Claims Date Date Days Work T. 17/88 Canadian Nickel Company (A-17522) This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.		Oct. 6/88	3	1				
							AT: 15:0		
Off	ice Use O	Inly	Dava	T	Description of Ci	aim		<u> </u>	
Assessment Work Cred	its Assign	ed to other Claims		Balance	ZAVITZ	TOWN	SHIP M-1	189	
				<u> </u>					
		:							
		:	1	}	Reservations - 40	0 foot S	urface Rights reserve	tion around all lake	and r
			1		•	no, grava	end pest reserved.		
					į				
				1				File No.	
			i		1				142
					<u></u>			R8806.502	203
Date								······································	
Date	Work					.,			
Oct. 17/88		(T10) Bra	at Man	114-4	on /N-227	201	4 m a m a f a m a	1000 4-	
		Canadian	TI MCA		er (M-23/	(20) (527)	transiers		
		ounduran :	TCKEI	Comp	out of the entries it	n the	•	(T8806.502	14)
				- L ASA 19 F	ייטעות ונערוטועט או או אויי				
		1 1	820181022	of the val	idity of the claim.	1			
									
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		1	POR	CUPINE	MINING DIVISION	<u> </u>			
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Mining Claim

and Mines		Claim					Claim No.	
Ontario			Minin	g Act			P-1087587	
Recorded in the Name	of				Licence No.	Date Recorded		
RICHARD B	RENT MO	CALLISTER			M-23728		17, 1988	
Address	·····					Date and Time of	Staking	₽.1
124 Tamar	ack Sti	reet, Timm:	ins, O	ntari	0	Oct. 5/8	8	1
						AT: 15:	00	x
	Office Use O	nly	Days		Description of Claim			
Assessment Work C	redits Assigne	ed to other Claims	Recorded	Balance	ZAVITZ TOW	NSHIP M-1	189	
					1			
		•	1	1	:			
		:			Reservations - 400 foot	t Surface Rights reserved avel and peat reserved		s and riv
				1	35.1.0, 9.1		•	
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			İ	1	Ì			
							IFile No.	
			İ	ŀ			1	
				<u> </u>			R8806.50	1263
<u> </u>		· · · · · · · · · · · · · · · · · · ·						
Date	Days Work	ļ						
							· · · · · · · · · · · · · · · · · · ·	
Oct. 17/	88	(T10) Br	ent Mc	Allis	ter (M-23728) transfer	s 100% to	
		Canadian	Nicke	1 Con	pany (A-1752	7).	(T8806.50	214)
							÷	•
					notice to considered as	· · · · · · · · · · · · · · · · · · ·		
		۱ ۲	This Abelt	organis.	rolic te considered as	1		

Date	Work	
Oct. 17/88		(T10) Brent McAllister (M-23728) transfers 100% to Canadian Nickel Company (A-17527). (T8806.50214)
		This Abstract is a copy of the gettine in the Record Book and is not to the considered as assurance of the variety of the claim.
		MAY 18 1989.
		Mining Recorder PORCUPINE MINING DIVISION
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Mining Claim

Mining Act

Claim No. P-1087588

Untario			Minin	g Act			P-108758	8
Recorded in the Name	of				Licence No.	Date Recorded	· · · · · · · · · · · · · · · · · · ·	
RICHARD BE	RENT MC	ALLISTER			M-23728		17, 1988	
124 Tamara	ack Str	eet, Timm	ins, Oı	ntari	0	Oct. 5/88 AT: 13:0	3	P.1
(Office Use On	ly	Days	Γ	Description of Claim			
Assessment Work Cr	redits Assigne	d to other Claims	Recorded	Balance	ZAVITZ TOW	NSHIP M-1	189	
						t Surface Rights reserved avel and peat reserved		s and rive
					100000		R8806.50	263
Date	Days Work							
Oct. 17/8	8 8	(T10) Br	ent Mc	Allis	ter (M-23728) transfers	: 100% to	

Date	Days	
Oct. 17/88	Work	(T10) Brent McAllister (M-23728) transfers 100% to Canadian Nickel Company (A-17527). (T8806.50214)
		This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.
		MAY 18 1989,
		Mining Recorder PORCUPINE MINING DIVISION
		· · · · · · · · · · · · · · · · · · ·

Mining Claim

Ontario	na Mines			Minin	g Act				P-108	7589	
	the Name of		ALLISTER	 			Licence No. M-23728	Date Recorded October	17 100	Q	
Address	IND DRE	INI MIC	ADDISTER				M-23120	Date and Time of S		0	P.T.
124 7	[amarac	k Str	eet, Timmi:	ns, Or	ntario			Oct. 5/88 AT: 11:0	0 a.m.		×
		ice Use On		Days Recorded	Balance		tion of Claim				
Assessmer	nt Work Credi	ts Assigne	d to other Claims	Hecorded		ZAV	ITZ TOWNS	SHIP M-11	89		
						Reserva		urface Rights reserva Il and peat reserved.	tion around a	il lakes and	rive
						•					
									R8806	.50263	3
Di	ate	Days Work									
Oct.	17/88		(T10) Bre	Nickel	Comp	pany	(A-17527)		100% t (T8806		1)
					Book and	validity	of the claim.		·		
						1819 W	hit			-	
				-	ORCUPI	ning Re	norder ING DIVISION				
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Mining Claim

tario			Minin	ig Act					12-100(2)	<i>7</i> U
corded in the Name of						Licence No.	Date Rec	orded		
RICHARD BRE	NT MC	CALLISTER				M-23728	Octo	ber l'	7, 1988	
iress	1. ~		_						taking	ř
124 Tamarac	K Str	eet, Timmi	ns, O	ntari	0		E .	5/88	a.m.	
							AT:	4:00	a.m.	:
Off	ice Use On	nly	Days	Balance		ion of Claim				
ssessment Work Credi	ts Assigne	d to other Claims	Recorded		ZAV	ITZ TOWN	ISHIP	M-11	89	
			l		1					
					Basasya	ions - 400 foot f	Surface Ric	hts reserve	tion around all la	kes and r
			1				el and pea			
			ł							
			1	1	1					
				1						•
									File No.	00/0
				<u> </u>	<u> </u>				R8806.5	0263
Date	Days Work									
								_		
Oct. 17/88		(T10) Bre	nt McA	Allist	ter (M-23728)	trans	siers	100% to	
		Canadian-1	Nickel	Comp	pany	(A-17527) •		(T8806.5	0214
		 			7-07-15	t the entries in t	he			
			This A	bstract is	a copy o	the entries in to be considered	85			
			Hecon	ence of the	e validity	of the claim.				
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Mining Claim

Mining Act

Claim No. P-1087591

,		M-23728	October 17, 1988	
ins, O	ntari	0	Oct. 6/88 AT: 9:00 a.m.	P.1.
Days		Description of Claim		
Recorded	Relance			
		Reservations - 400 foot 5	Surface Rights reservation around all lakes	
	Days	· · · · · · · · · · · · · · · · · · ·	ins, Ontario Days Recorded Balance ZAVITZ TOWN Reservations - 400 foot is	ins, Ontario Days Recorded Balance ZAVITZ TOWNSHIP M-1189 Reservations - 400 foot Surface Rights reservation around all lakes Sand, gravel and peat reserved. File No.

			K8806.50263
Date	Days Work		
Oct. 17/8	3	(T10) Brent McAllister (M-23728) transfers Canadian Nickel Company (A-17527).	100% to (T8806.50214)
		This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.	•
		MAY 18 1989 White Asigned Recorder Asigned Recorder	
		Mining Recorder PORCUPINE MINING DIVISION	
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Northern Development Claim Ontario	Minir	ng Act				Cleim No. L 1032812
Recorded in the Name of		Licence N	٥.	Receipt No.	Date Recorded	
Michael W. Peplinski		M 21	221	5763	March 25	. 1988
Address					Date and Time of S	itaking P.T.
P.O. Box 2265					March 17	. 1988
TIMMINS, Ontario P4N 7X8					at 2:40	
Office Use Only	Days		Descri	ption of Claim		
Assessment Work Credits Assigned to other Claims	Recorded	Balance	HIN	CKS TOWN	SHIP (M-223	.)
			For	mer 876	609	
			Reserv		Surface Rights reserve avel and peat reserved.	ation around all lakes and rivers
				er reser may app		er The Mining
						File No.
						L 1032812

Date	Days Work		Receipt No.
Apr.5/88		(T1) Michael Peplinski transfers 100% interest t	4
		Ralph E. Allerston (M-13613) (170/88)	
Apr. 3/89		(OC5) Commissioner extends time until and	
		including December 15, 1989 for work and filing	
		thereof. (178/89)	
•		This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.	
		JUN - 9 1989	
		M. G. Winner Mining Recorder	
	 	LARDER LAKE MINING DIVISION	
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Northern Development end Mines Claim						Claim No.	
Ontario	Minir	ng Act				L 10328	13
Recorded in the Name of		Licence N	٥.	Receipt No.	Date Recorded		
Michael W. Peplinski		M 21	221	5763	March 25	. 1988	
Address		·			Date and Time of S	taking	P.T.
P.O. Box 2265					March 17	. 1988	1
TIMMINS, Ontario P4N 7X8					at 12:00		X
Office Use Only	Days			ption of Claim			
Assessment Work Credits Assigned to other Claims	Recorded	Balance			SHIP (M-223)	
			For	mer 876	610		
		: 	Reserv		Surface Rights reserve svel and peat reserved.	tion around all lakes	and rivers
						File No.	
						L 10328	12

Dete	Days Work		Receipt No.
Apr.5/88		(Tl) Michael Peplinski transfers 100% interest to	
		Ralph E. Allerston (M-13613) (170/88)	
Apr. 3/89		(OC5) Commissioner extends time until and	
		including December 15, 1989 for work and filing	
		thereof (178/89)	
		This Abstract is a cory of the entries in the Proord Brick and to not to be continued to the validity of	
		the Ricord Brink and is not in the both of aldered as assurance of the validity of the validity of the claim.	
		3011-2 1869	
		m.a. Winnen	
		MINITE PROMISE DIVIDION	
		· · · · · · · · · · · · · · · · · · ·	



Northern Development and Mines Claim						Cleim No.			
Ontario	Mining Act					L 1032814			
Recorded in the Name of		Licence N	0.	Receipt No.	Date Recorded				
Michael W. Peplinski		M 21	221	5763	March 25	, 1988			
Address					Date and Time of S	taking	P.T.		
P.O. Box 2265					March 17	, 1988	İ		
TIMMINS, Ontario P4N 7X8					at 9:35	a.m.	X		
Office Use Only	Days		1	ption of Claim					
Assessment Work Credits Assigned to other Claims	Recorded	Balance	HINCKS TOWNSHIP (M-223)						
			For	mer 8766	11				
			Reserv		Surface Rights reserve evel and peet reserved.	tion around all lal	es and rivers		
			Proceedings of the control of the co			er reser may app		nder The Mining	
						File No.			
						L 1032	812		

Date	Days Work		Receipt No.
Apr.5/88		(T1) Michael Peplinski transfers 100% interest t	0
		Ralph E. Allerston (M-13613) (170/88)	
pr. 3/89		(OC5) Commissioner extends time until and	
		including December 15, 1989 for work and filing	
		thereof- (178/89)	
		This Abstract is a copy of the entries in the Record Rook and is not to be considered as assurance of the validity of	
•	_	sidered as assurance of the clotte.	
	-	JUN - 9 1989	ì
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		Mining Recorder LARDER LAKE MINING DIVISION	
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Northern Development and Mines Claim						Claim No.	
Ontario	Minin	g Act				L 10328	115
Michael W. Peplinski		M 21	_	Faceipt No. 5763	March 25 Date and Time of 8	teking	7. T.
P.O. Box 2265 TIMMINS, Ontario P4N 7X8					March 17 at 7:15		х
	Days ecorded	Balance	HIN	ortion of Claim CKS TOWN mer 8766	SHIP (M-223)	
			Oth	Sand, gr	Surface Rights reserved by and pest reserved. vations und ly.		
						File No. 1. 10328	312

Days Work		Receipt No.
	(T1) Michael Peplinski transfers 100% interest to	
	Ralph E. Allerston (M-13613) (170/88)	
	(OC5) Commissioner extends time until and	
	including December 15, 1989 for work and filing	
	thereof- (178/89)	
	This Abstract is a copy of the entries in	
	sidered as assurence of the validity of the claim.	
	JUN - 9 1989	·
	M. a. l.) inneis	
	Mining Recorder LARDER LAKE MINING DIVISION	
	Deys	(T1) Michael Peplinski transfers 100% interest to Ralph E. Allerston (M-13613)** (170/88) (C5) Commissioner extends time until and including December 15, 1989 for work and filing thereof. (178/89) This Abstractis a copy of the entries in the Record Book and is not to be considered as assurence of the validity of the claim. JUN-9 1989 M. G. Wallen Mining Recorder LARDER LAKE MINING DIVISION



Mining Claim

and Mines Claim	A 4:!-	4 -4				Claim No. L 10328	16
	Milli	ng Act			Date Recorded	L 10326	10
Recorded in the Name of		Licence N	-	Receipt No.	Date Mecorded		
Michael W. Peplinski		M 21	221	5763	March 25	. 1988	
Address					Date and Time of St	taking	₹.Т.
P.O. Box 2265					March 16	. 1988	ì
TIMMINS, Ontario P4N 7X8					at 2:45		l x
Office Use Only	Days		Descri	ption of Claim			
Assessment Work Credits Assigned to other Claims	Recorded	Balance	HINCKS TOWNSHIP (M-223)				
			For	rmer 8766			
			Reserv		Surface Rights reserved well and peat reserved.	tion ground all lakes a	nd rivers
				ner reser t may app	vations und	er The Min	ing
						File No.	·
	Į.						
		1	<u> </u>			L 10328	12

Dete	Days Work				Receipt No.
Apr.5/88		(T1) Michael Pepl	inski transfers 10	00% interest t)
		Ralph E. Allersto	on (M-13613)*	(170/88)	
Apr. 3/89		(OC5) Commissioner			
		including December	15, 1989 for work	and filing	
		thereof-		(178/89)	
		T T	his Abstract is a copy of the entries in he Record Book and is not to be con-		
		1 1 2	he Record Book and Is not to be be delicated as assurance of the validity of the claim.		
			JUN - 9 1989		
			m.a. Weirmein		
			Mining Recorder LARDER LAKE MINING DIVISION	J	
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Northern Development and Mines Claim	Minin	g Act				Claim No. L 1032	817
Recorded in the Name of Michael W. Peplinski		Licence N M 21	-	Receipt No. 5763	Date Recorded March 25	. 1988	
P.O. Box 2265 TIMMINS, Ontario P4N 7X8				13.55	March 16 at 12:30	, 1988	X
Office Use Only Assessment Work Credits Assigned to other Claims	Days Recorded	Salance	HIN		SHIP (M-223)	
			For	mer 8766	514		
			Reserv		Surface Rights reserval evel and peat reserved.	tion eround all lake	es and rivers.
						File No. L 1032	812

Dete	Days Work		Receipt No.
Apr.5/88	:	(T1) Michael Peplinski transfers 100% interest to	
		Ralph E. Allerston (M-13613) (170/88)	
pr. 3/89		(OC5) Commissioner extends time until and	
		including December 15, 1989 for work and filing	
		thereof (178/89)	•
		the Fiscard Book and is not to be contined the fiscard as assurance of the validity of the cities.	
· · · · · · · · · · · · · · · · · · ·	-		
	╂	JUN - 9 1989 ·	
	1	m.a. Weirmen	
	+	Mining Recorder LARDER LAKE MINING DIVISION	
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	+-		
840 (86/4)	1		<u> </u>



Northern Development and Mines Ontario Ministry Claim	M inir	ng Act				Claim No. L 1032	818
Michael W. Peplinski Address P.O. Box 2265 TIMMINS, Ontario P4N 7X8		Licence N M 21		Foceipt No. 5763	March 25 Date and Time of 8 March 16 at 10:15	, 1988 taking	,
Office Use Only Assessment Work Credits Assigned to other Claims	Days Recorded	Balance	HIN	ption of Claim ICKS TOWN mer 5287	SHIP (M-223		
				etions - 400 foot	Surface Rights reserva vel and peat reserved.	ction around all lak	es and riv
						File No. L 1032	2812

Dete	Days Work				Receipt No.
Apr.5/88		(T1) Michael Peplin	ski transfers 100	% interest to	
		Ralph E. Allerston	(M-13613)-	(170/88)	
pr. 3/89		(OC5) Commissioner e	xtends time until	and	
		including December 1	5, 1989 for work	and filing	·
		thereof.		(178/89)	
		the side	s Abstract is a copy of the entries in. Record Book and is not to be con- pred as assurance of the validity of claim.		
			JUN - 9 1989	·	
		1	M. Q. Wermen Mining Recorder ANDER LAKE MINING DIVISION		
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Northern Development Claim						Claim No.	
Ontario	Minir	ng Act	L 1032819				
Recorded in the Name of		Licence No) .	Receipt No.	Date Recorded		
Michael W. Peplinski		M 21:	221	5763	March 25		
Address		*			Date and Time of S	taking	P.T.
P.O. Box 2265					March 16	, 1988	1
TIMMINS, Ontario P4N 7X8					at 8:00	a.m.	Х
Office Use Only	Days			ption of Claim			
Assessment Work Credits Assigned to other Claims	Recorded	Balance	HINCKS TOWNSHIP (M-223)				
			For	mer 876	615		
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		Ralph E. Allerston (M-13613) (170/88)							
Apr. 3/89		(OC5) Commissioner extends time until and							
		including December 15, 1989 for work and filing							
		thereof (178/89)							
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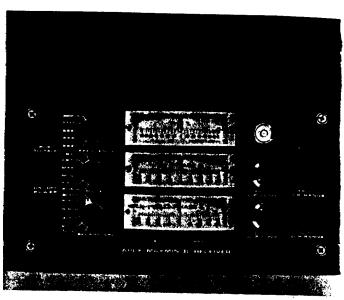
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Appendix B Instrument Specifications





SPECIFICATIONS:

Frequencies: 222,444,888,1777 and 3555 Hz.

Modes of Operation: MAX: Transmitter coil plane and receiver coil plane horizontal

(Mex-coupled; Horizontal-loop mode). Used with refer cable.

MIN: Trensmitter coil plane horizontal and receiver coil plane vertical (Min-coupled mode). Used with reference cable.

V.L.: Transmitter coil plane vertical and receiver coil plane horizontal (Vertical-loop mode). Used without reference cable, in parallel lines.

Coil Separations: 25,50,100,150,200 & 250m (MMI)

or 100, 200, 300, 400,600 and 800 ft. (MMIF).

Coil separations in V.L.mode not restricted to fixed values.

Parameters Read: - In-Phase and Quadrature components of the secondary field in

MAX and MIN modes.

- Tilt-angle of the total field in V.L. mode.

Readouts:

- Automatic, direct readout on 90 mm (3.5") edgewise meters in MAX and MIN modes. No nuli-

ing or compensation necessary.

- Tilt angle and null in 90mm edge-

wise meters in V.L.mode.

Scale Ranges: In-Phase: ±20%,±100% by pushbutton switch,

Ouadrature: ±20%, ±100% by pushbutton switch. QUADRATURE Tilt: ±75% slope

QUADRATURE Tilt: ±75% slope.

FULL SCALE, Null (V.L.): Sensitivity adjustable

by separation switch.

Readability: In-Phase and Quadrature: 0.25 % to 0.5%; Tilt: 1%.

Repeatability: ±0.25% to ±1% normally, depending on conditions, frequencies and conditions.

separation used.

Transmitter Output: - 222Hz : 220 Atm²

- 444Hz: 200 Atm²
- 888Hz: 120 Atm²
- 1777Hz: 60 Atm²
- 3555Hz: 30 Atm²

Receiver Batteries: SV trens. radio type batteries (4

Life: approx. 35 hrs. continuous d ty (alkaline, 0.5 Ah), less in colo

weather.

Transmitter

Batteries: 12V SAh Gel-type rechargeable battery. (Charger supplied

Colory. (Charg

Reference Cable: Light weight 2-conductor teflor cable for minimum friction. Unshield

ed. All reference cables options at extra cost. Please specify

Voice Link: Built-in intercom system for

voice communication between receiver and transmitter operators in MAX and MIN modes, via re

ference cable.

Indicator Lights: Built-in signal and reference warring lights to indicate erroneous

readings .

Temperature Range: -40°C to+60°C (-40°F to+140°F.

Receiver Weight: 6kg (13 lbs.)

Transmitter Weight: 13kg (29 lbs.)

Shipping Weight: Typically 60kg (135 lbs.), depend

ing on quantities of reference cable and batteries included Shipped in two field/shipping cases

Specifications subject to change without notification

APEX POX

PARAMETRICS LIMITED
BOX 818, R.R. NO.1; UXBRIDGE, ONTARIO, CANADA LOC 1KO

640-6102 Phone: (416) 852-5875 Cables: APEXPARA TORONTO Telex: . 06-

Telex: 06-966625 APEXPARA UXB

9.0 SPECIFICATIONS

9.1 Standard Console Specifications

Digital Display	32 character, 2 line LCD display				
Keyboard Input	14 keys for entering all commands, coordinates, header and ancillary information.				
Languages	English plus French is standard.				
Standard Memory	16K RAM. More than sufficient for a day's data in most applications.				
Clock	Real time clock with day, month, year, hour, minute and second. One second resolution, ±1 second stability over 12 hours. Needs keyboard initialization only after battery replacement.				
Digital Data Output	RS-232C serial interface for digital printer, modem, micro-computer or cassette tape recorder. Data outputs in 7 bit ASCII, no parity format. Baud rate is keyboard selectable at 110, 300, 600 and 1200 baud. Carriage return delay is keyboard selectable in increments of one from 0 through 999. Handshaking is done through X-ON/X-OFF protocol.				
	Allows IGS-2 to act as a master for other instrumenta-tion.				
Analog Output	For a strip chart recorder. 0 to 999 mV full scale with keyboard selectable sensitivities of 10, 100 or 1000 units full scale.				

Appendix C SAMPLE LOCATIONS AND ASSAY CERTIFICATES

SAMPLE LOCATIONS

Sample No	Northing	<u>Easting</u>	Gold (ppb)	Silver (ppm)	Copper (ppm)	Zinc (ppm)	Nickel (ppm)
14201	0+70 S	0+80W	nil	nil	105	44	65
14202	1+30 N	B.L.	10	nil	179	81	72
14203	2+10 N	0+75 E	nil	nil	148	64	77
14204	3+10 N	0+25 E	nil	nil	43	27	23
14205	2+05 N	0+55 W	nil	nil	73	39	29
14206	1+52 N	0+70 E	nil	nil	131	51	75
14207	1+02 N	0+95 E	nil	nil	151	28	56
14208	1+08 N	0+40 E	nil	nil	116	25	38
14209	1+65 N	0+80 W	ni1	nil	114	39	50
14210	1+27 N	0+45 W	nil	nil	89	54	57
14211	0+70 N	0+20 E	nil	nil	67	28	30
14212	0+48 N	0+58 E	nil	nil	156	45	53
14213	0+10 N	0+25 E	nil	nil	155	36	77
14214	0+06 N	0+25 W	nil	0.4	774	70	134
14215	0+52 N	0+70 W	nil	nil	78	48	56
14216	0+73 S	0+57 E	nil	nil	106	40	73
14217	1+35 8	0+30 E	nil	nil	49	34	41
14218	1+30 S	0+29 E	nil	nil	68	39	52
14219	1+10 8	0+08 W	nil	nil	85	41	45
14220	1+55 S	0+02 W	nil	nil	144	36	56
14221	7+05 8	8+19 W	nil	nil	53	50	46

CHANNEL SAMPLE LOCATIONS

Sample Number	Length (m)	Irench Number	Description
16901	0.5	1	quartz stringer
16902	grab	1	quartz stringer
16903	grab	1	quartz stringer
16904	1.0	2	sulphide breccia zone
			(peripheral)
16905	1.0	2	sulphide breccia zone
			(zone)
16906	1.0	2	sulphide breccia zone
			(zone)
16907	1.0	2	sulphide breccia zone
			(zone)
16908	1.0	2	sulphide breccia zone
			(peripheral)
16910	1.0	2	sulphide breccia zone
		_	(zone)
16911	1.0	2	sulphide breccia zone
			(zone)
16912	1.0	2	sulphide breccia zone
		_	(fault zone ?)
16913	1.0	3	sulphide breccia zone
		•	(fault zone ?)
16914	1.5	3	sulphide breccia zone
	, , -	_	(peripheral + fault ?)
16915	1.5	3	sulphide breccia zone
	, , ,	-	(peripheral)
16916	1.0	3	sulphide breccia zone
	, , ,	_	(fault zone ?)
16917	1.0	4	fault zone, minor sulph
16918	0.5	4	fault zone, diorite
, , , , ,		•	dykelet
16919	0.5	4	syenite dykelet
16920	0.5	4	syenite dykelet
16921	1.0	5	syenite dykelet
16922	1.0	5	syenite dykelet
16923	1.0	5	syenite dykelet
16924	0.5	6	syenite dykelet
16925	0.5	6	granodiorite dykelet
16926	0.5	6	syenite dykelet in
10020	0.0	J	fault zone
16927	0.5	6	syenite dykelet
10321	0.5	•	elening alverer



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Certificate of Analysis

 Certificate No.
 75702
 Date
 July 28, 1989

 Received
 July 24, 1989
 21
 Grab Samples

Submitted by	E. H. Van He	ees Geologica	1 Services	Ltd., Timmin	s, Ontario	
	Proj. #JBS					
	SAMPLE NO.	GOLD PPB	SILVER PPM	COPPER PPM	ZINC , PPM	NICKEL PPMP
	14201	Ni 1	Nil	105	44	65
	14202	10	NII	179	81	72
	14203	Nil	Nil	148	64	77
	14204	Ni 1	Ni 1	43	27	23
<u>;</u>	14205	Nil	Nil	73	39	29
·	14206	NII	, NII	131	51	75
N. V.	14207	Ni1	Nil	151	28	56
*	14208	Nil/Nil	. Nil	116	25	38
	14209	Ni 1	Nil	114	39	50
	14210	Nil	Ni1	89	54	57
.	14211	·Nil	Nil	67	28	30
	14212	Nil	Nil	156	45	53
÷.	14213	NII	Nil	155	36	77
,	14214	Nil '	0.4	774	7 0	134
	14215	Ni 1	Nil"	78	48	56
	14216	Nil/Nil	Nil	106	40	73
3 - 1	14217	Ni 1	Nil	49	34	41
• •	14218	Nil .	Nil	68	39	52
	14219	Nil	NII	85	. 41	45
3	14220	Ni1	NII	144	36	, 5 6
	14221	NII	Nil	53	50	46

Per_

B. Lebel - Manager /ns



Swastika Laboratories

A Division of Assavers Corporation Ltd.

Assaving - Consulting - Representation

Certificate of Analysis

Certificate No	76093		Date	Sept. 11, 1	989
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	Van Hees Geologi	cal Services	Ltd., Timmir	s, Ontario.	
•	e #92-0766				Page 1 of
SAMPLE NO.	GOLD Oz/ton	SILVER Oz/ton	COPPER %	ZINC	NICKEL %
16901⊭	0.010/0.012	Trace	0.02	0.01	0.01
16902	Ni 1	Nil	0.01	0.005	0.005
16903	Ni 1	Nil	0.005	0.01	0.01
16904	NI I	Nil	0.02	0.01	0.01
16905	Ni 1	Trace	0.02	0.01	0.01
16906	Ni1	0.01	0.04	0.01	0.02
16907	Nil	Trace	0.04	0.01	0.02
16909	Nil	0.01	0.03	0.01	0.01
16910	0.002/0.002	Trace	0.03	0.01	0.01
16911	Nil	Trace	0.03	0.01	0.01
16912	Ni l	NI1	0.03	0.02	0.01
16913	Ni 1	0.01	0.04	0.03	0.02
16914	Nil	0.03	0.07	0.02	0.02
16915	Ni l	0.02	0.03	0.01	0.01
16916	Ni l	0.01	0.04	0.02	0.02
16917	Nil	0.01	0.02	0.02	0.01
16918	NII	0.01	0.03	0.01	0.01
16919	Nil	NII	0.02	0.02	0.01
16920	Nil	0.01	0.01	0.01	

Per____

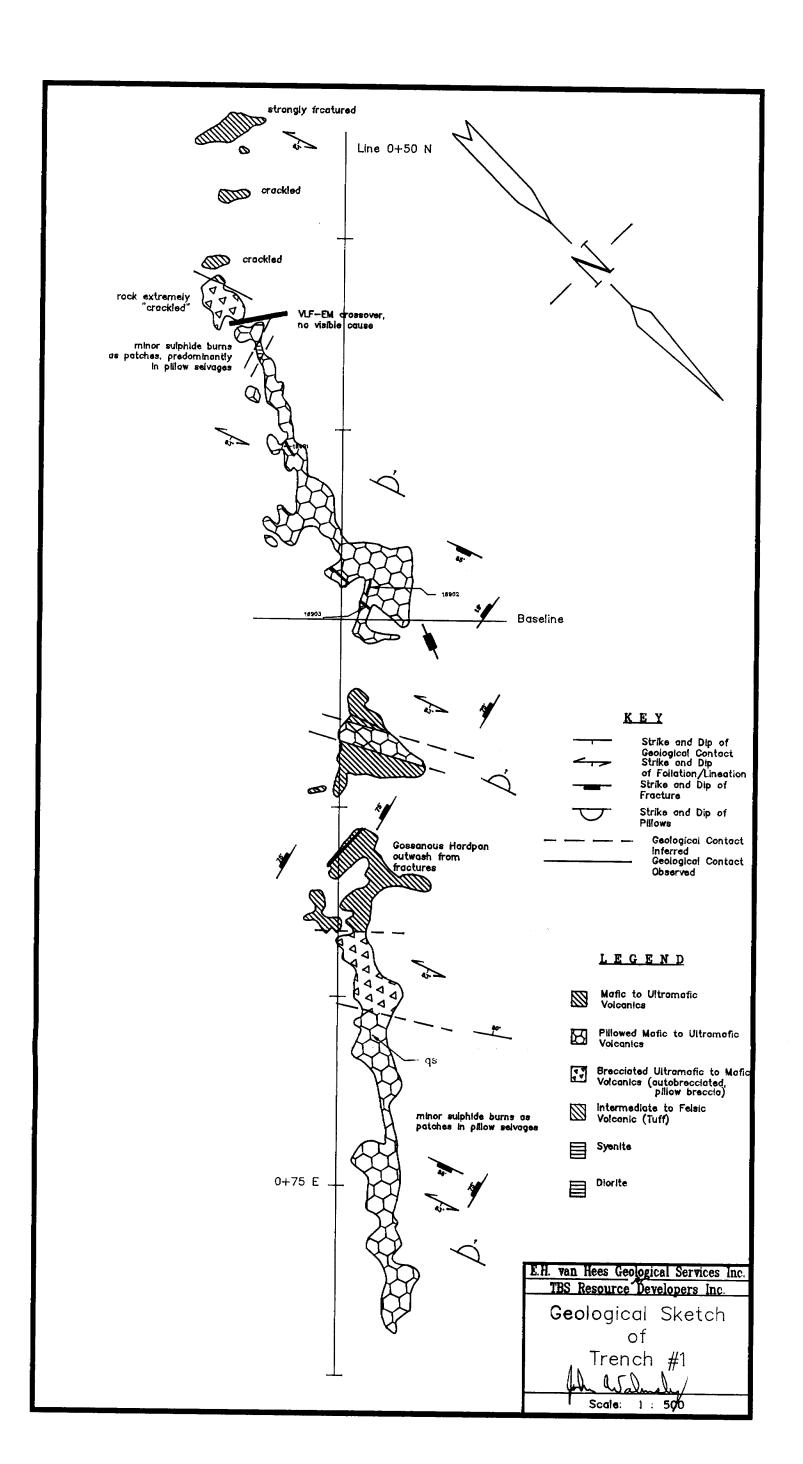
6. Lebel - Manager /ns

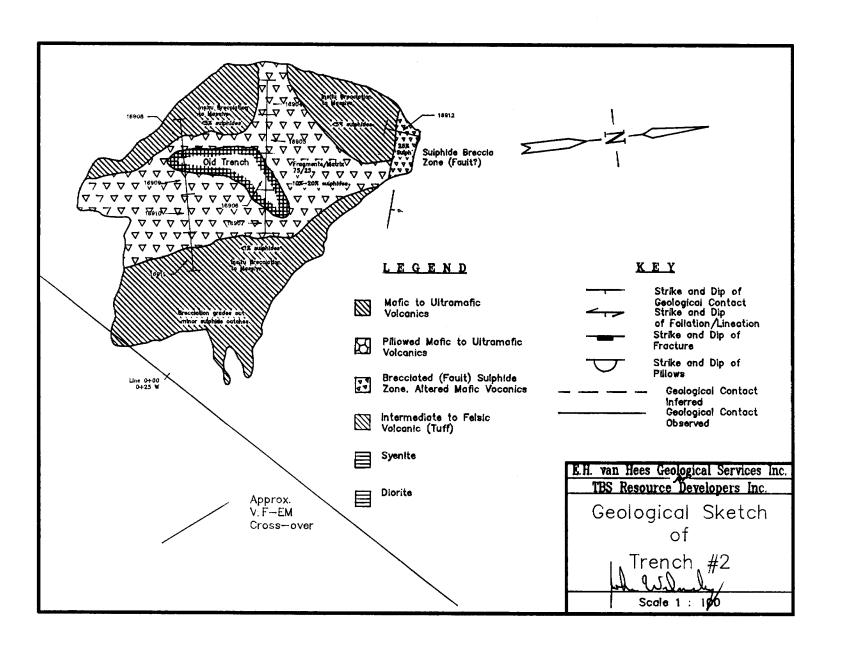


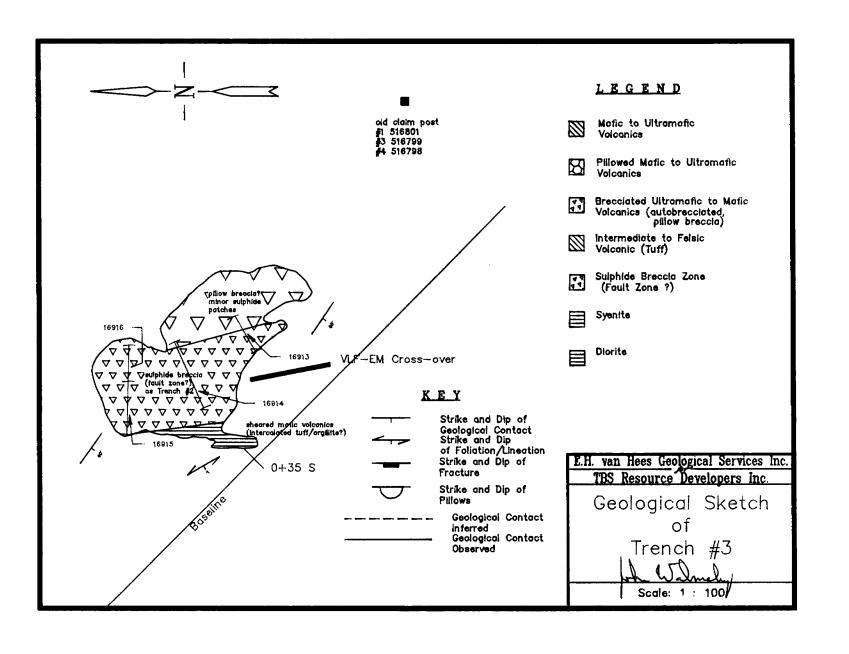
Swastika Labora	tories	Certificate No	76093	Page2	
SAMPLE NO.	GOLD Oz/ton	STLVER Oz/ton	COPPER	ZINC %	NICKEL %
16921	0.002/Nil	Nil	0.005	0.01	0.01
16922	Nil	Nil	0.01	0.005	0.01
16923	N11	NI I	0.005	0.01	0.005
16924	NI 1	Nil	0.01	0.005	0.01
16925	NII	Trace	0.01	0.005	0.005
16926A	Nil	Ni 1	0.005	0.01	0.01
16926B	Nil	Nil	0.01	0.01	0.01
16927	Ni 1	N1 1	0.01	0.01	0.01

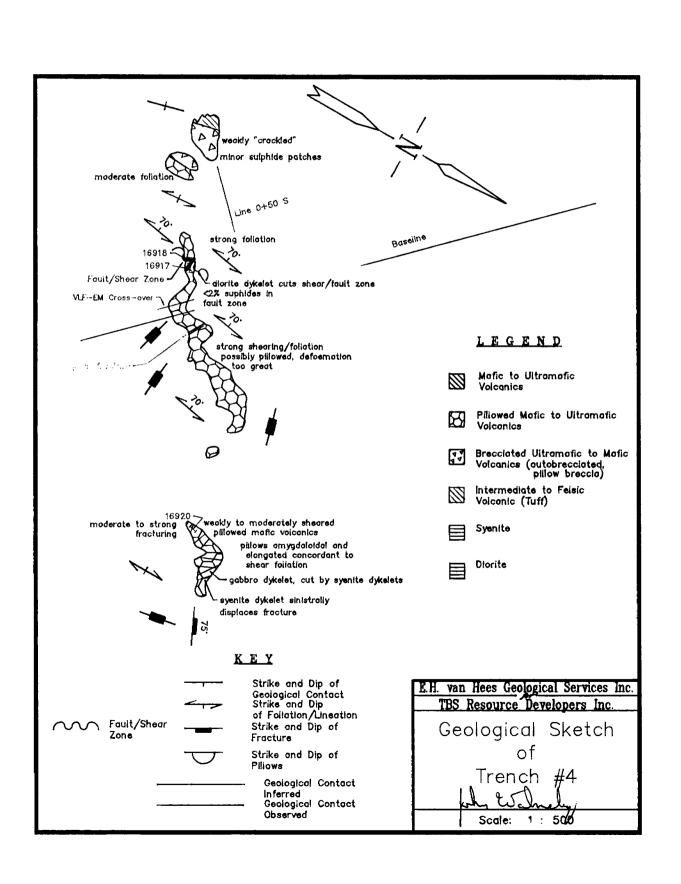
G. Lebel - Manager

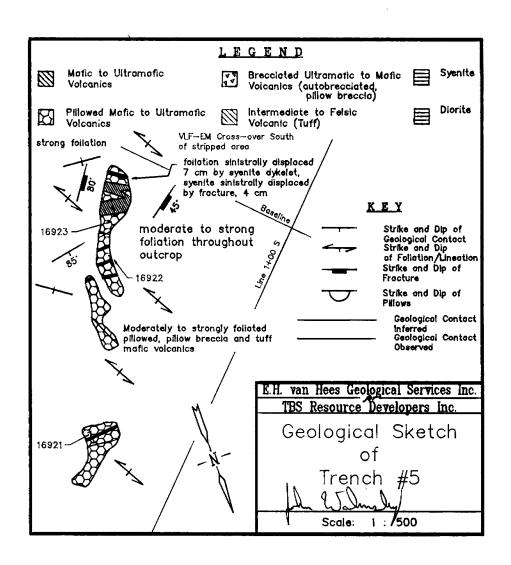
PROPERTY MAPS and TRENCH SKETCHES

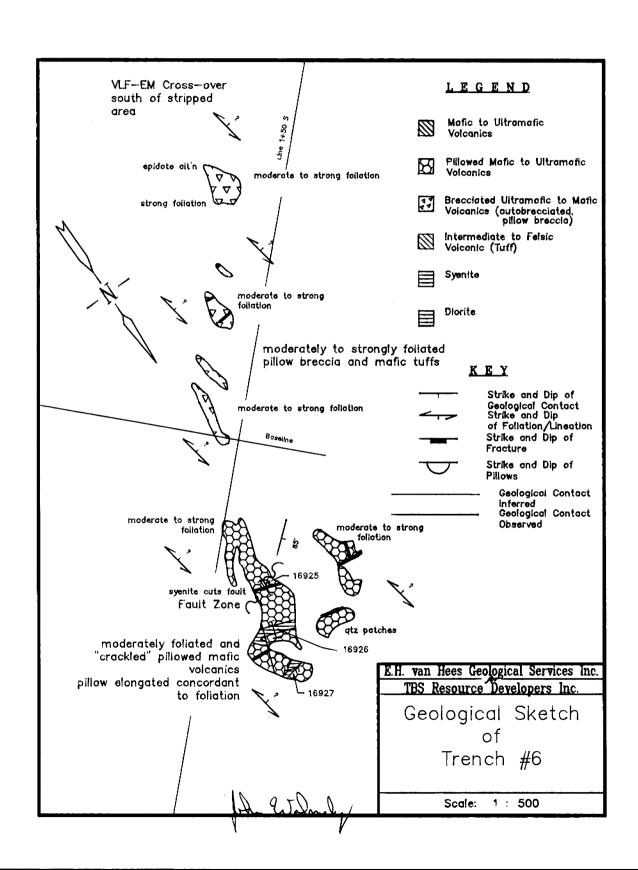


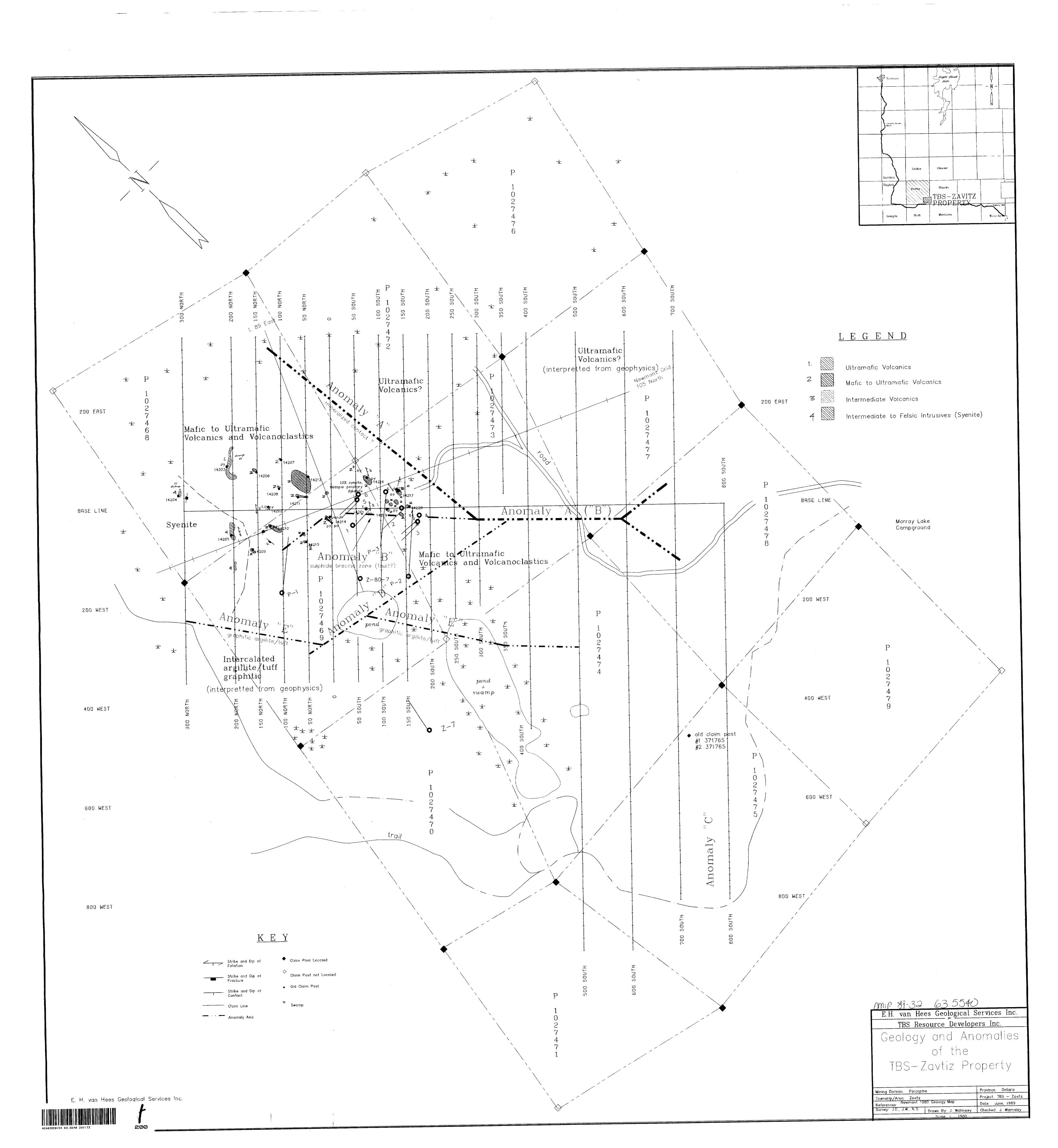


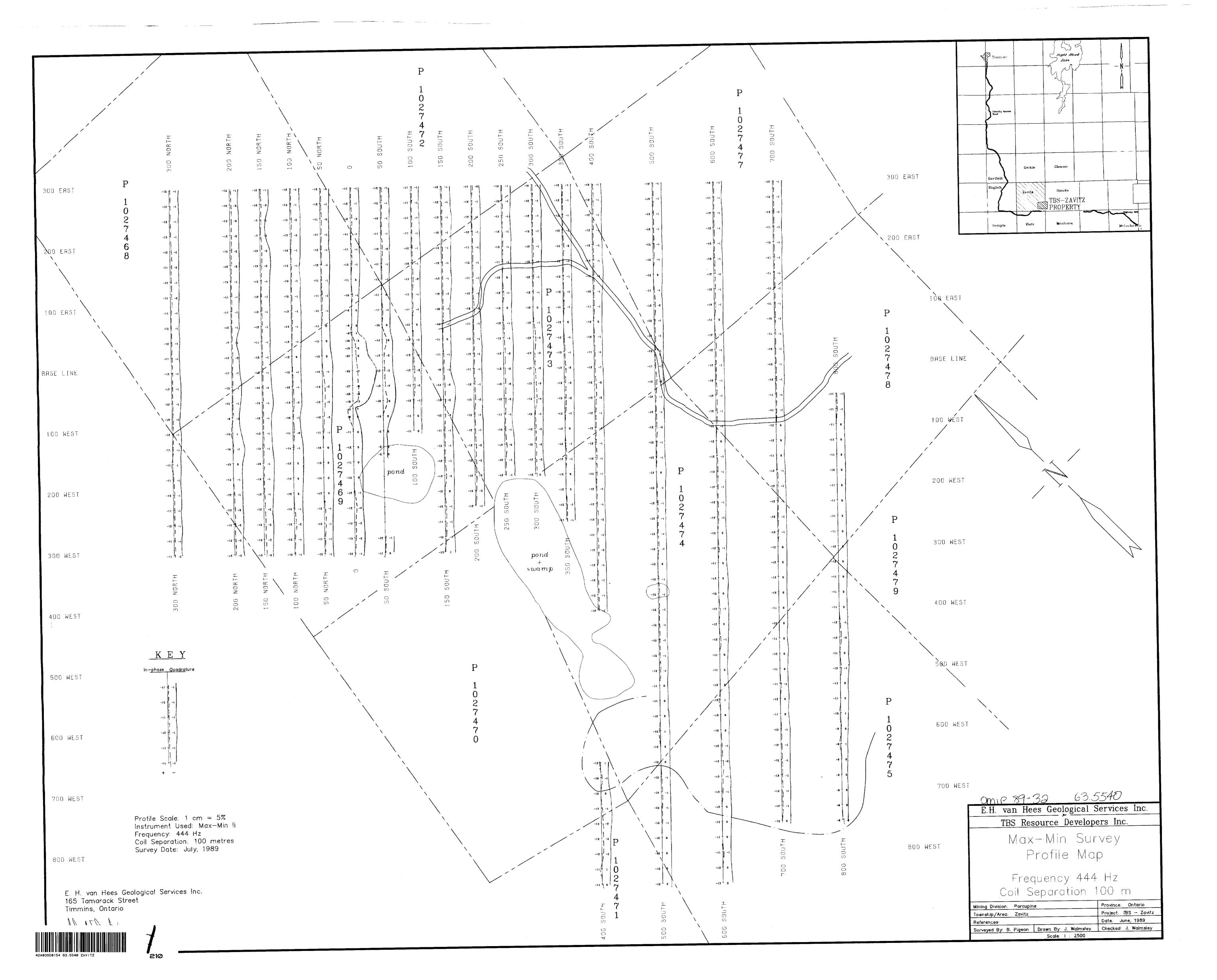


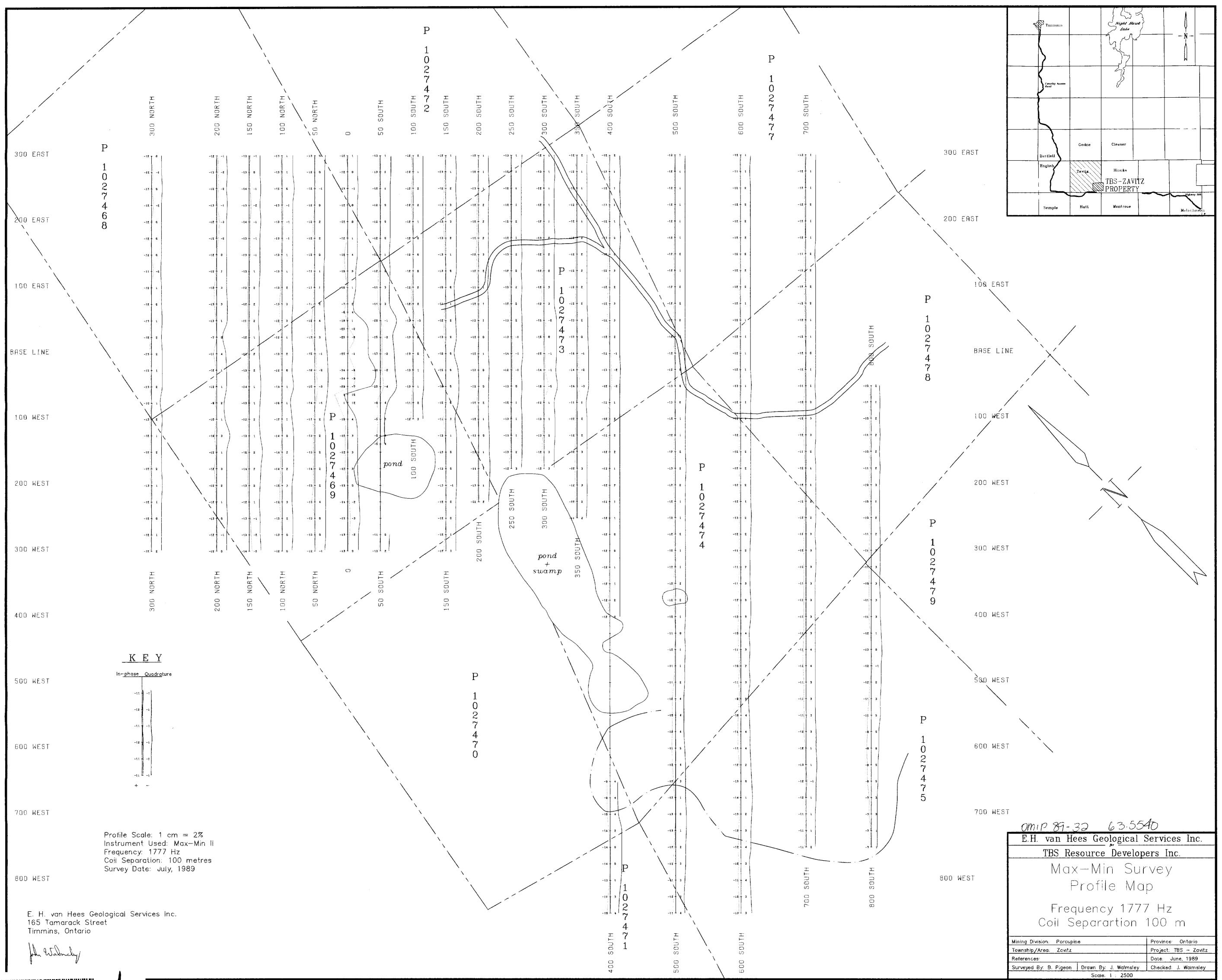






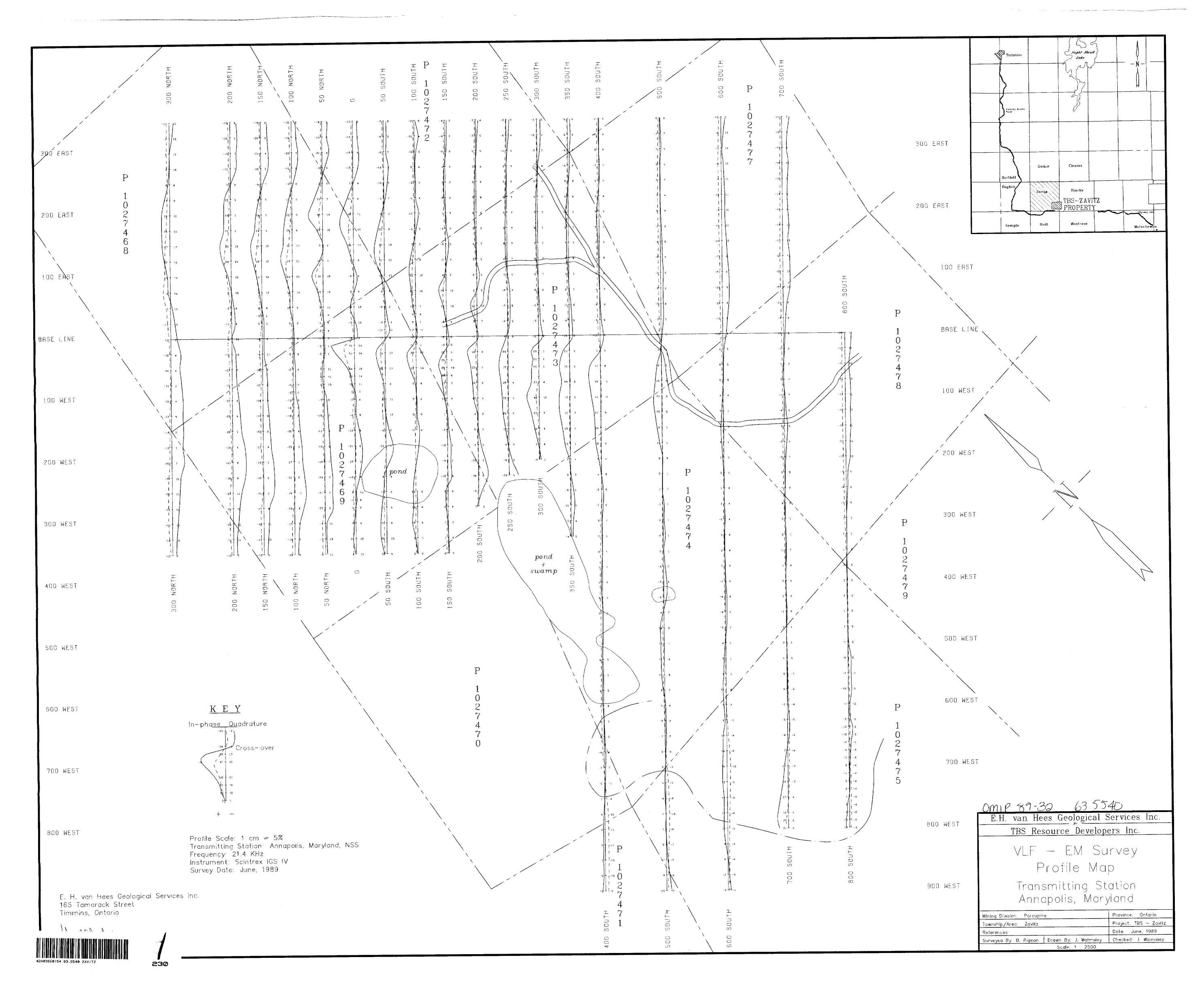


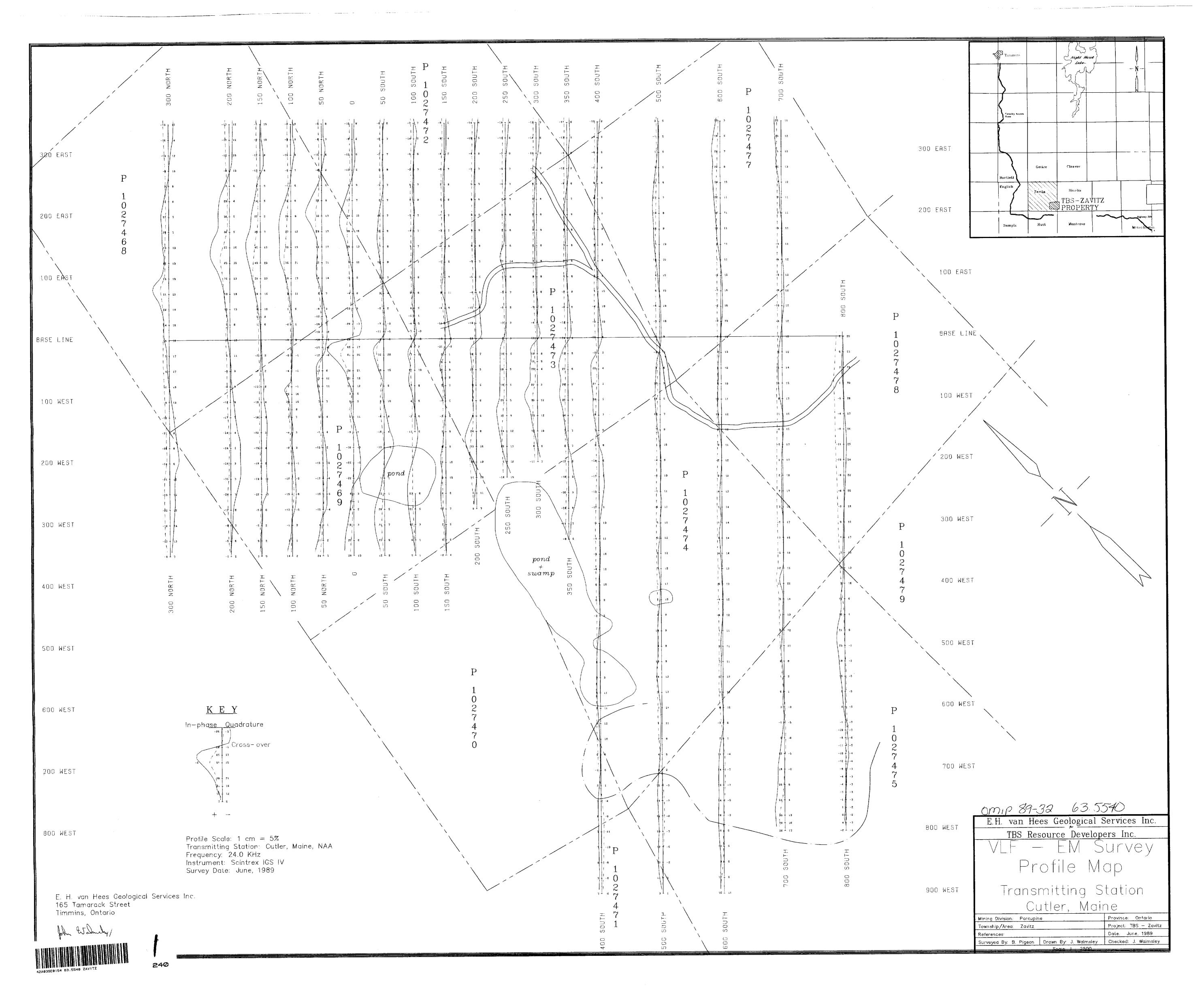


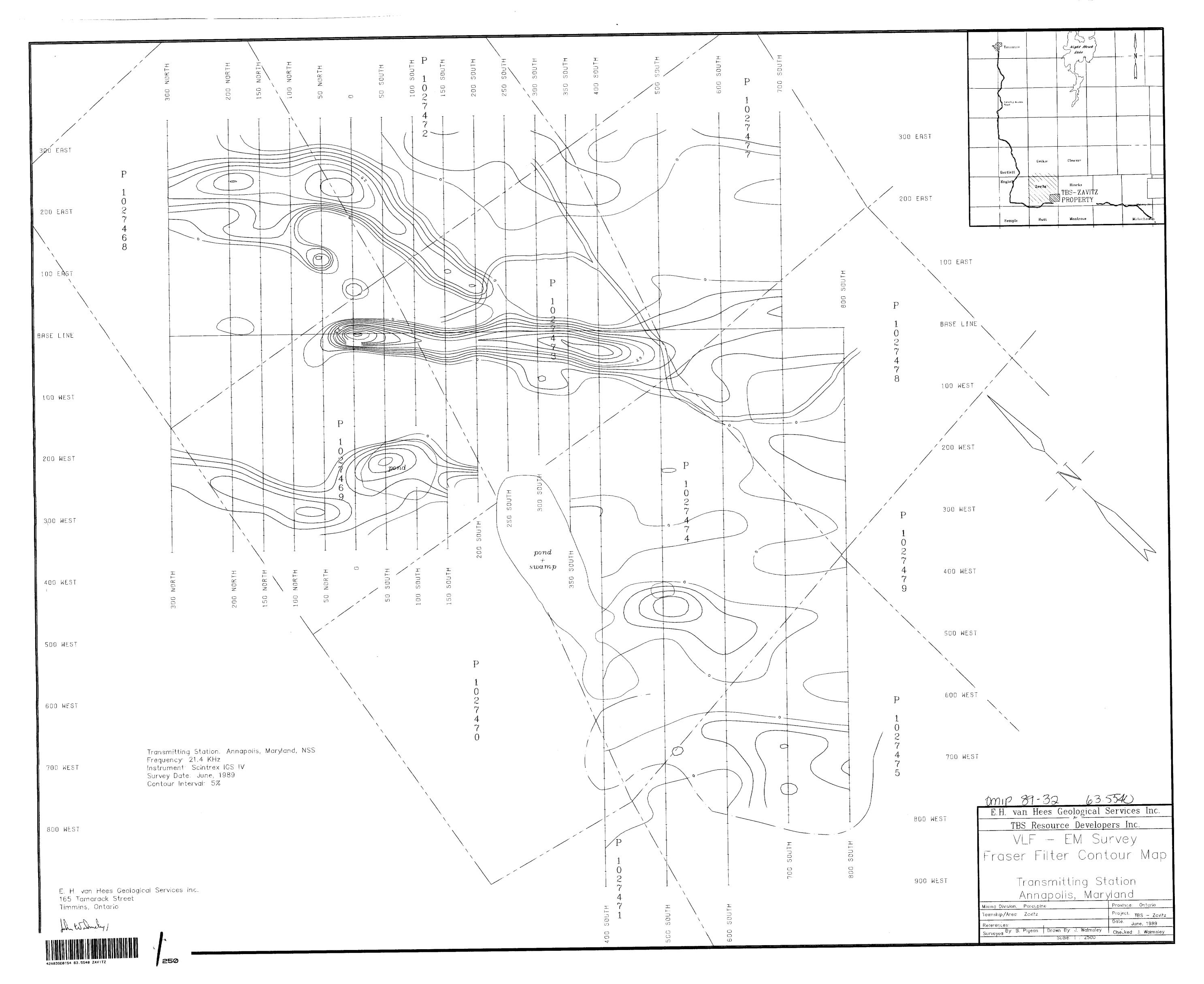


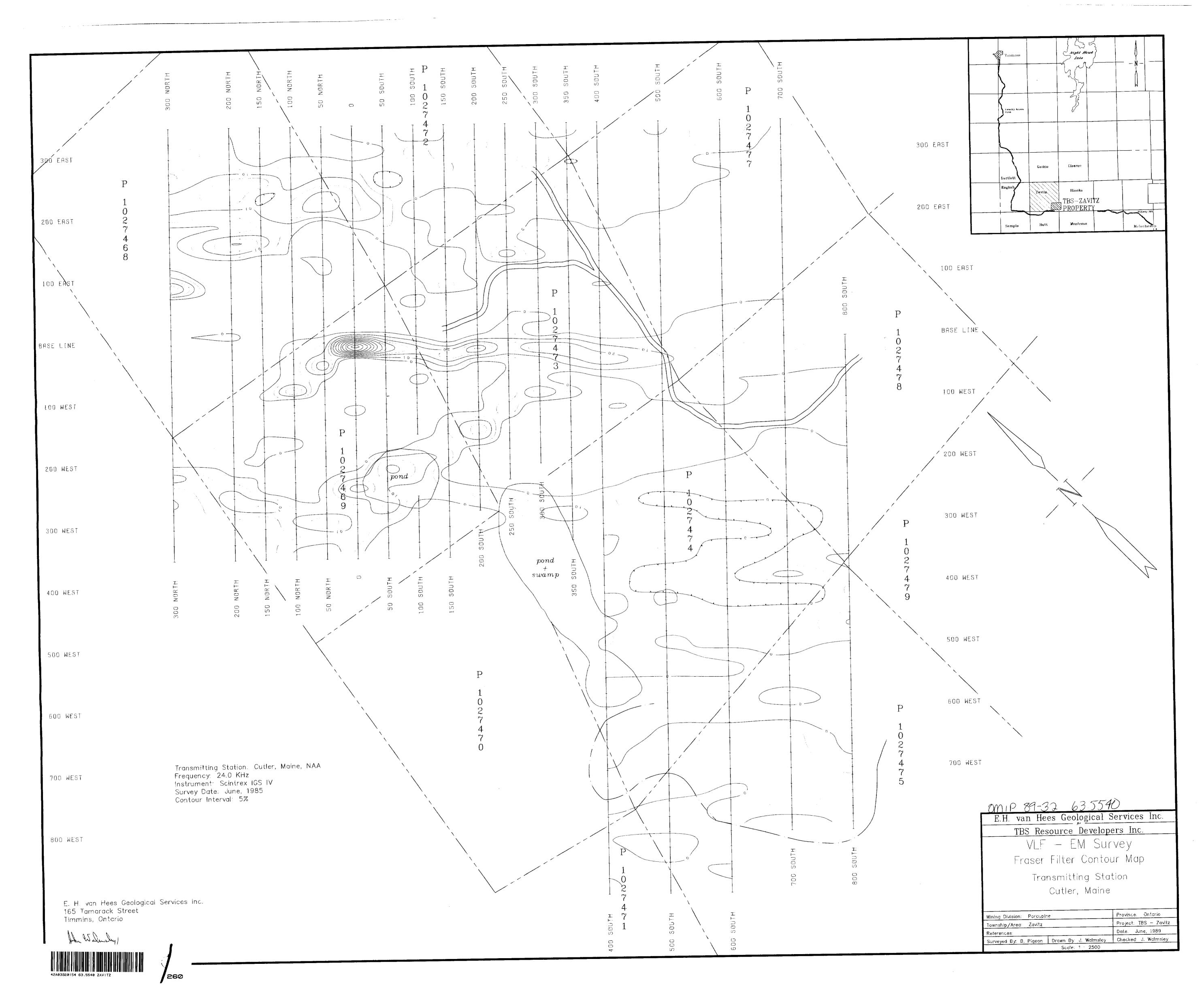


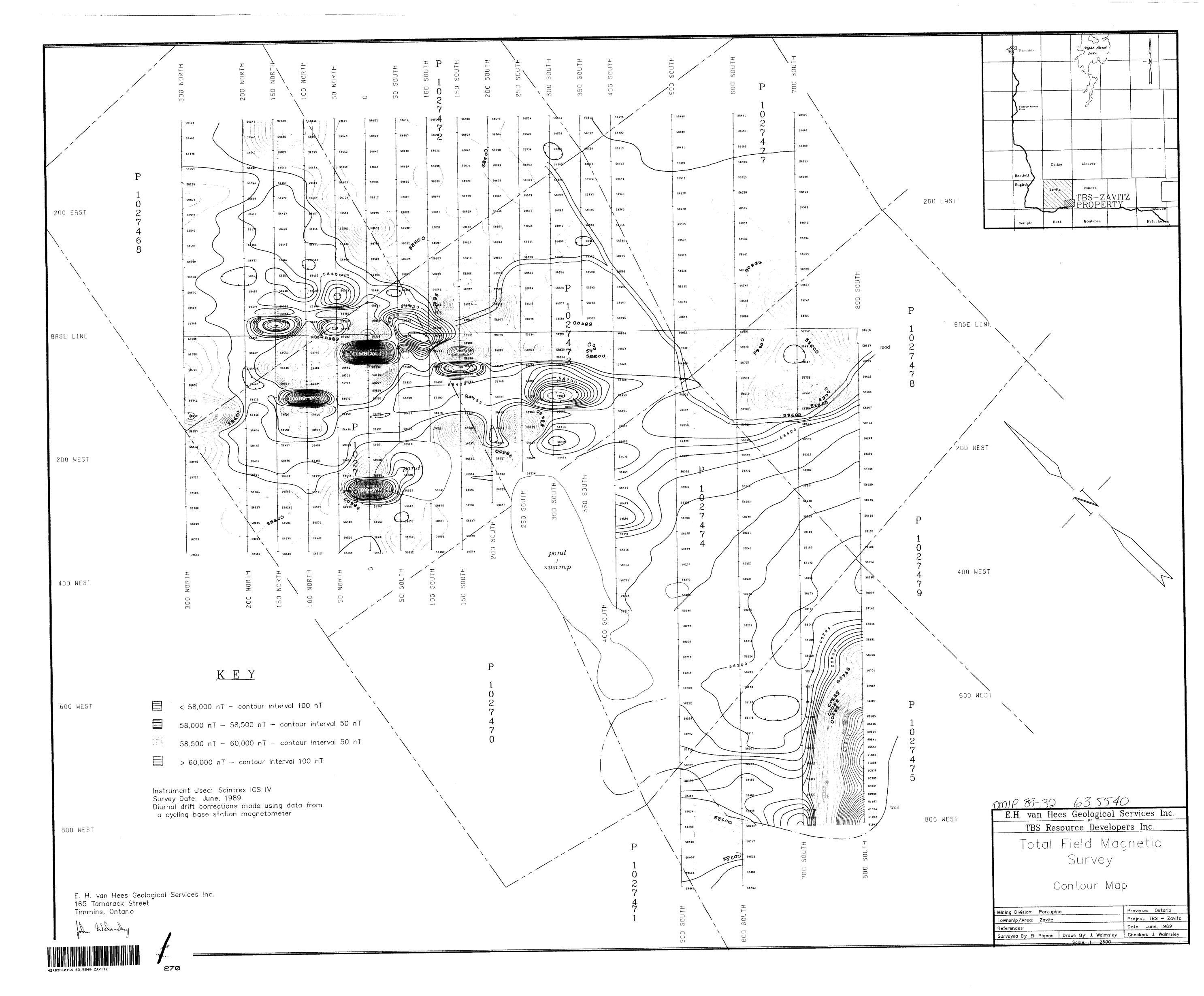


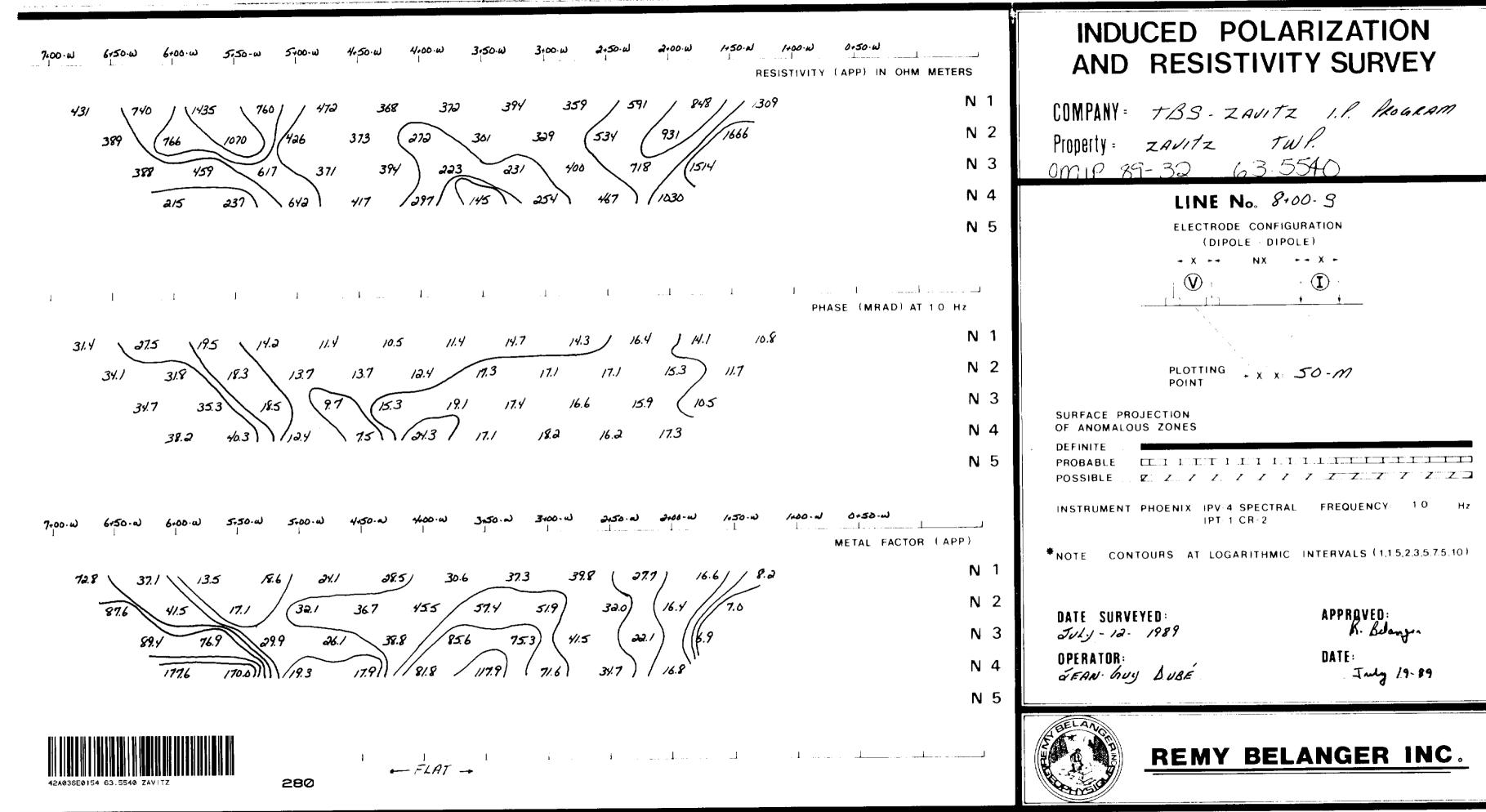


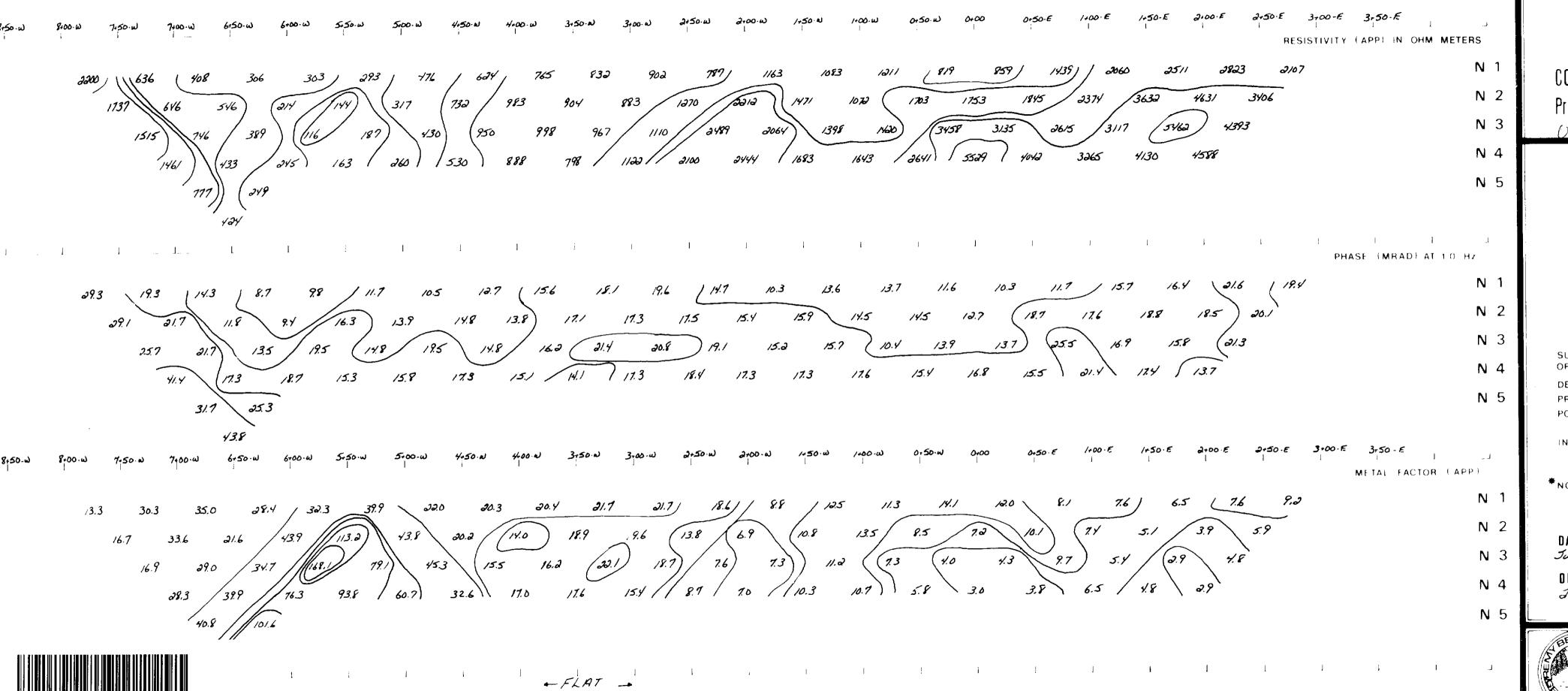












INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: TBS-ZAVITZ

LINE No. 7+00-5 ELECTRODE CONFIGURATION (DIPOLE - DIPOLE) NX + + X +

PLOTTING - X X: 50 M.

SURFACE PROJECTION

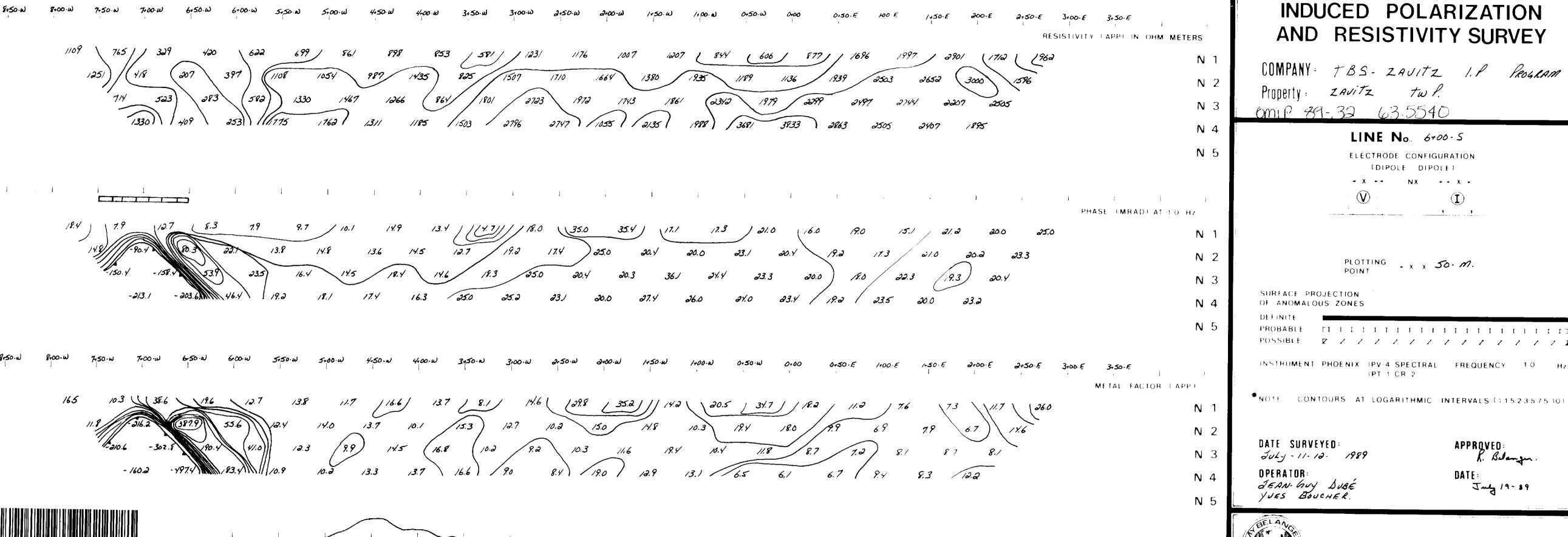
INSTRUMENT PHOENIX IPV-4 SPECTRAL FREQUENCY 10 IPT-1 CR-2

*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1.15.2.3.5.7.5.10)

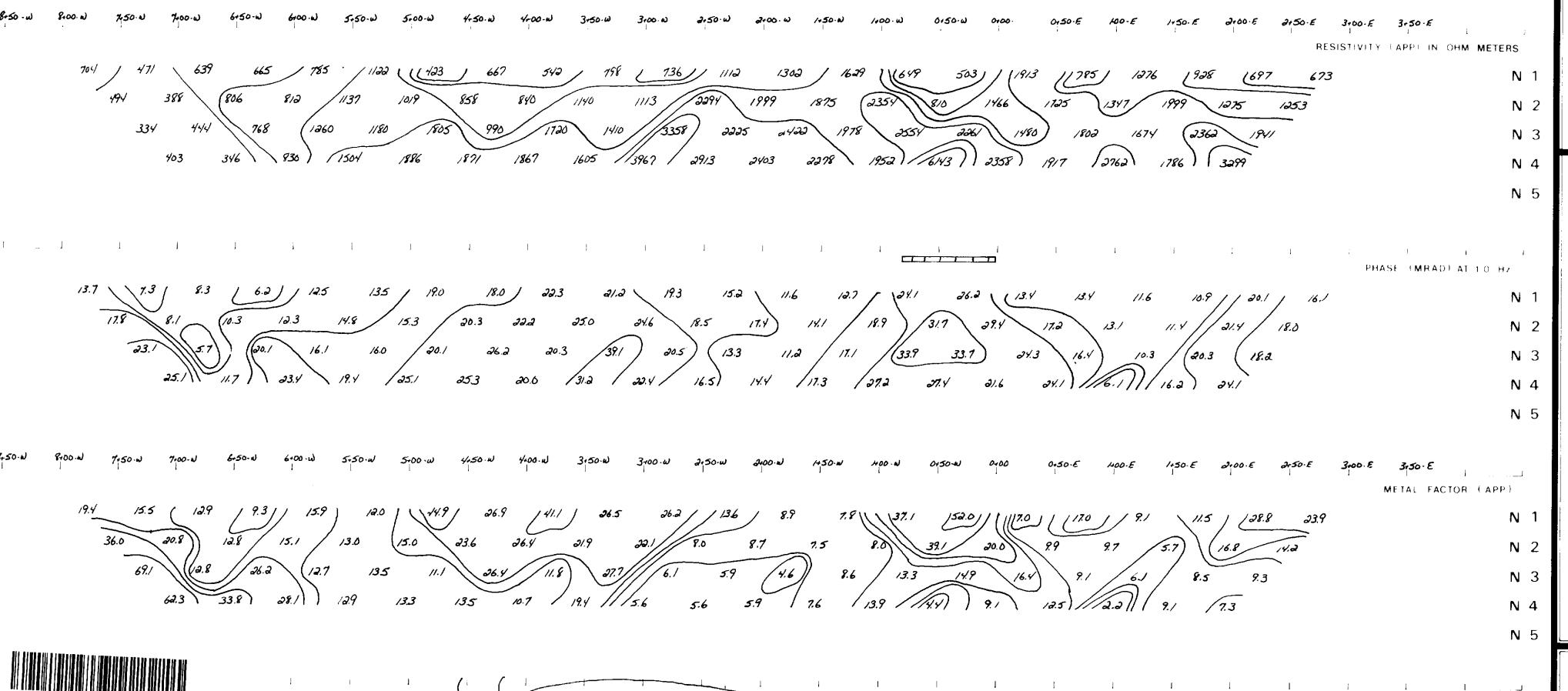
DATE SURVEYED: July-11-12- 1989

OPERATOR: JEAN- GUY BUBE





TO THE PROPERTY OF THE PARTY OF



FLAT -

INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: TBS-ZAVITZ 1.P. PROGRAM Tw P. 63.5540

> LINE No. 5700.5 ELECTRODE CONFIGURATION

PLOTTING + X X: 50-M.

SURFACE PROJECTION OF ANOMALOUS ZONES

INSTRUMENT PHOENIX IPV-4 SPECTRAL FREQUENCY 10 IPT-1 CR-2

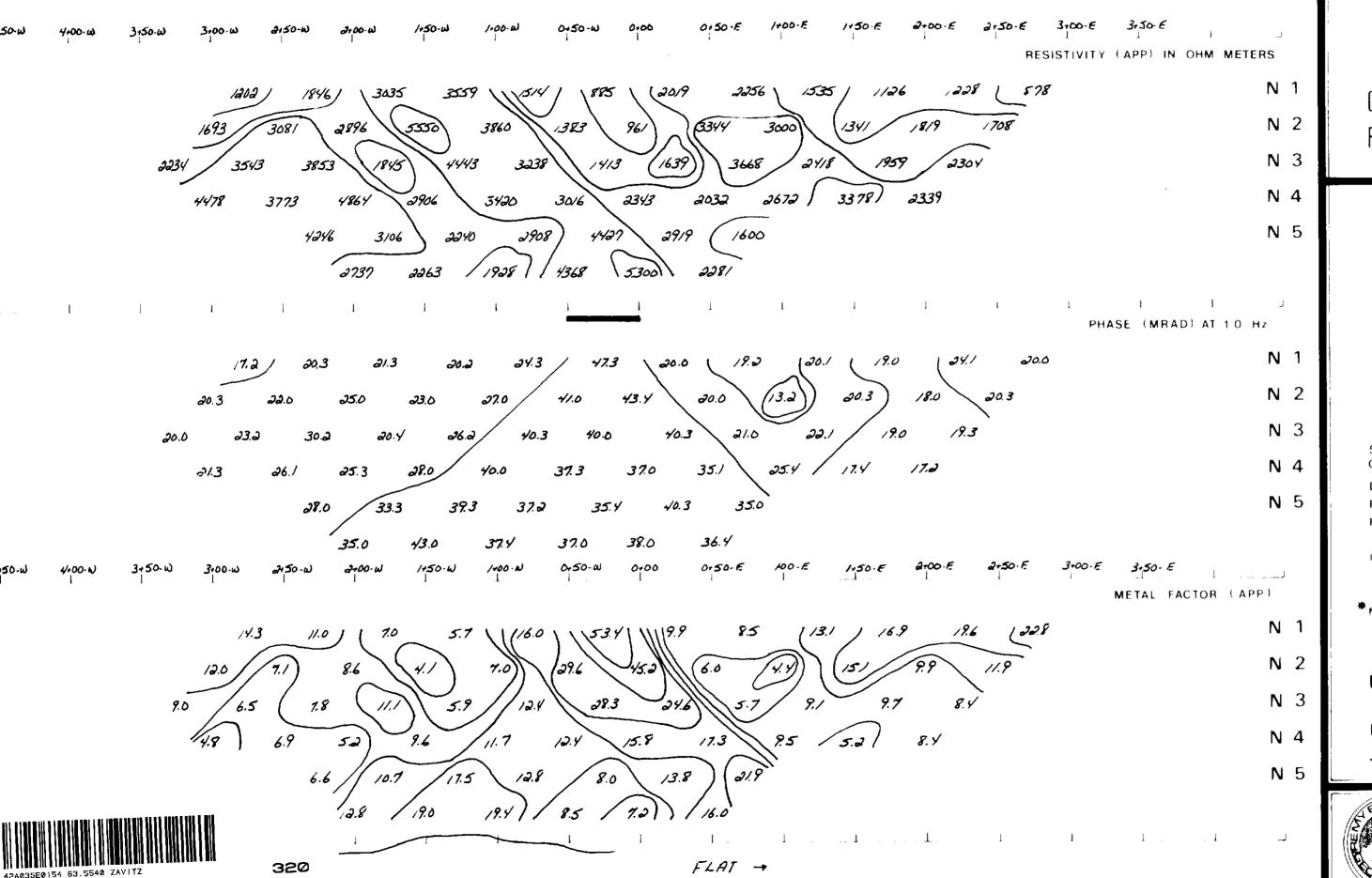
*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1,15,2,3,5 75 10)

DATE SURVEYED July-11-12- 1989 OPERATOR:

JEAN-GUY - BUBE YUES BOUCHER.

July 19-89





INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY = TBS. ZAVITZ 1.P. PROGRAM

Property = ZAVITZ TWP.

COMPANY = TBS. ZAVITZ 1.P. PROGRAM

LINE No. 4+00.5

(DIPOLE - DIPOLE)

+ X ++ NX ++ X +-

- x -- Nx -- x [V]

PLOTTING - X X 50-M.

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE PROBABLE

INSTRUMENT PHOENIX IPV 4 SPECTRAL FREQUENCY 10 Hz
IPT 1 CR-2

*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1.1.5,2.3,5.7.5.10)

DATE SURVEYED:

APPROVED:

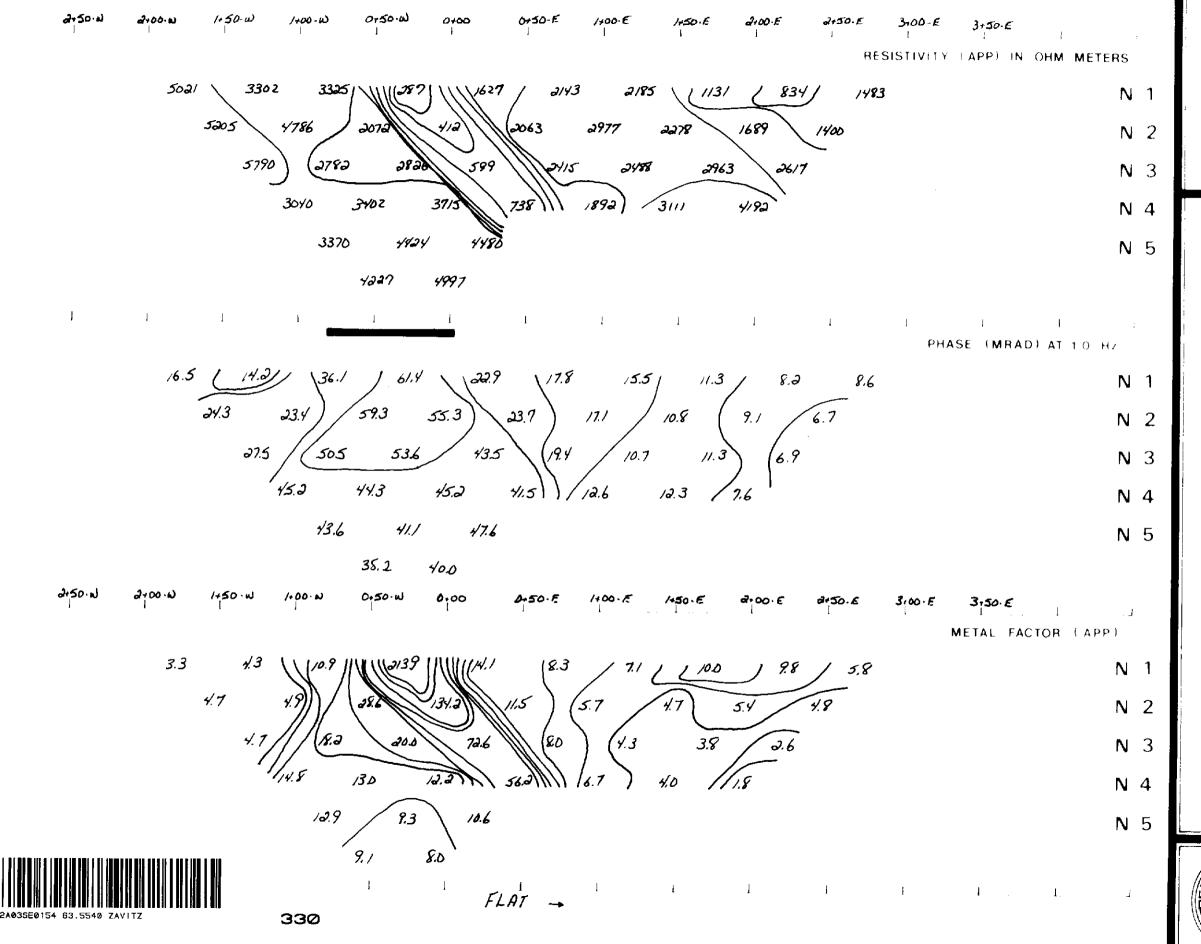
OPERATOR:

DATE:

YUES BOUCHER.

July 19-89





INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY = +BS - ZAVITZ 1.P. PROGRAM

Property = ZAVITZ TWP.

OMIP 89-32 63.5540

LINE No. 3+50.5

ELECTRODE CONFIGURATION
(DIPOLE DIPOLE)
- X -- NX -- X -
V

PLOTTING + X X: 50-M.

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

INSTRUMENT PHOENIX IPV 4 SPECTRAL FREQUENCY 10 Hz

*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1,1.5,2,3.5,7.5.10)

DATE SURVEYED:

July - 11- 1988

APPROVED:

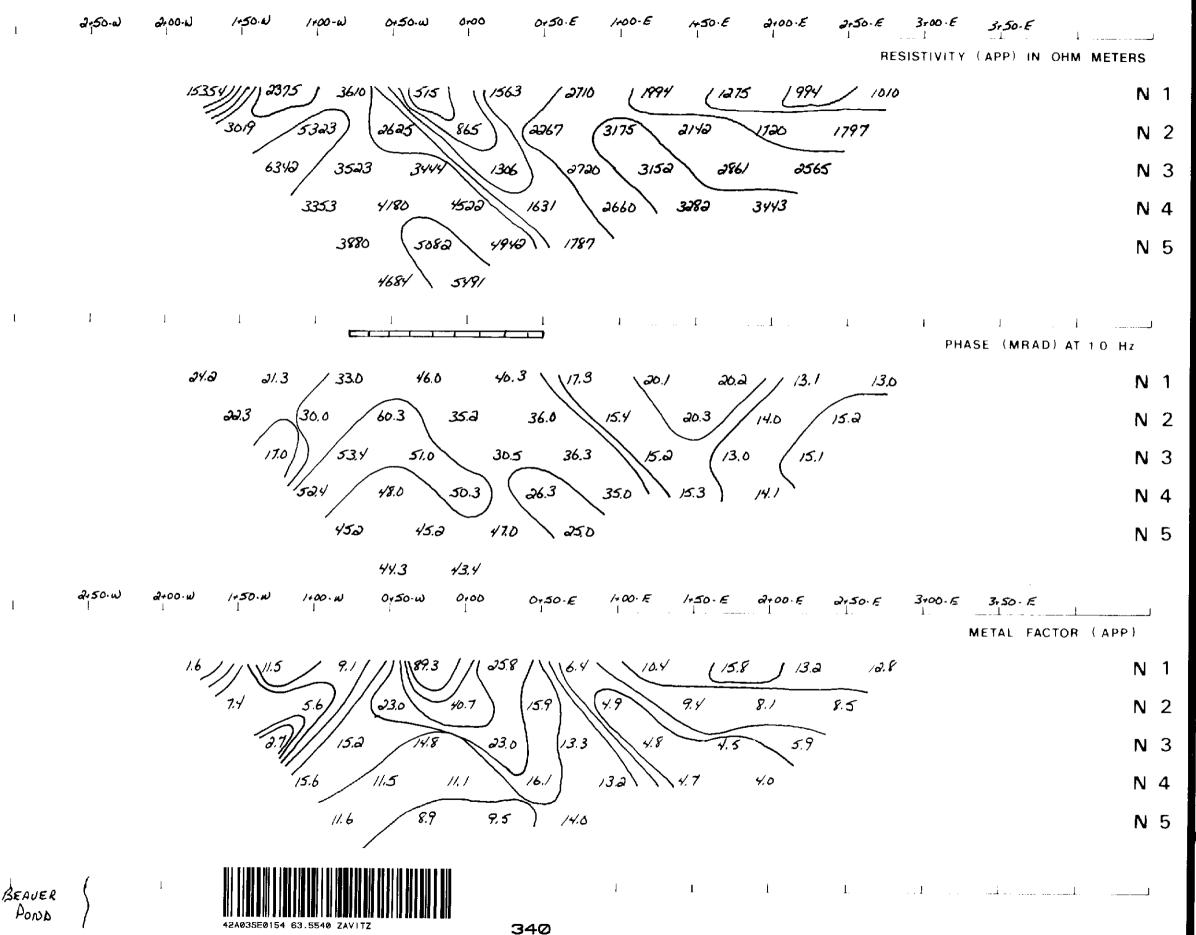
OPERATOR:

YUES BOUCHER.

DATE:

July 19.89





COMPANY: TBS-ZAVITZ 1.P Property = ZAVITZ omiP 89-30 63.5540

LINE No. 3100.5

ELECTRODE CONFIGURATION (DIPOLE - DIPOLE) NX + x x 50 M

SURFACE PROJECTION OF ANOMALOUS ZONES

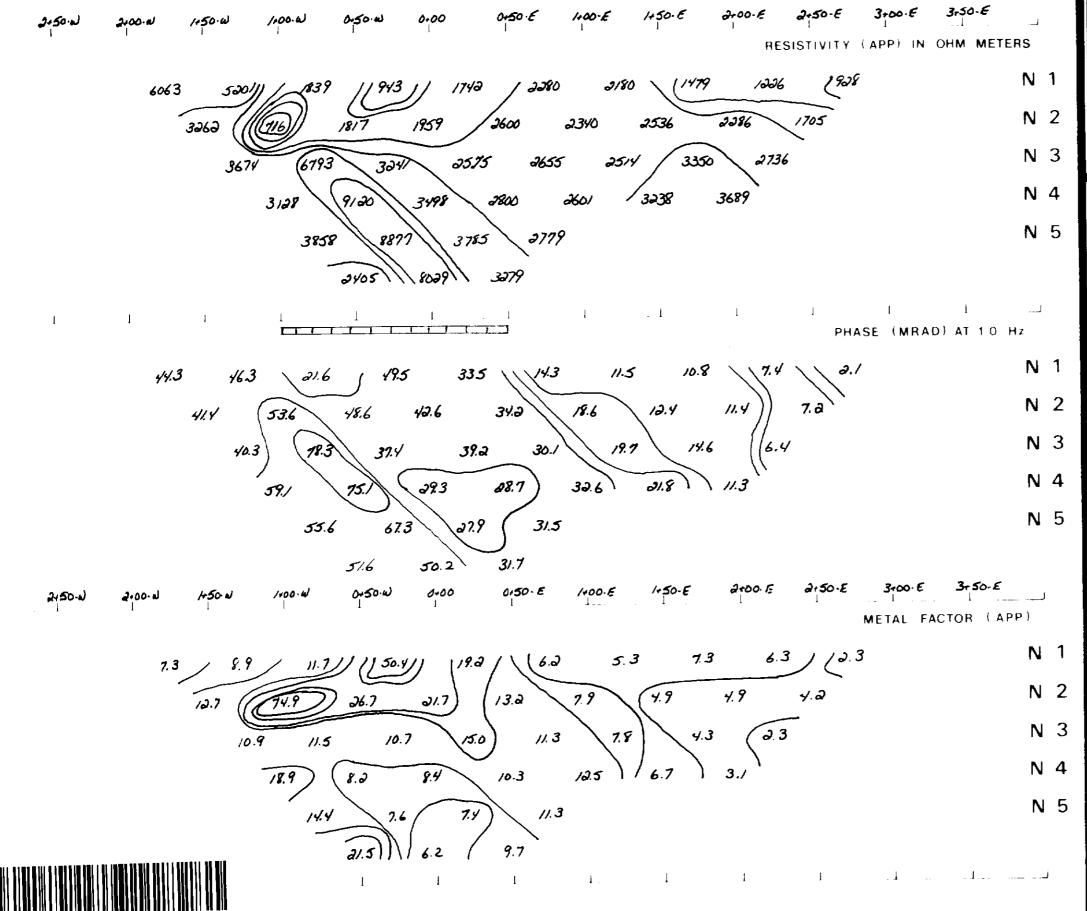
INSTRUMENT PHOENIX IPV-4 SPECTRAL FREQUENCY 10 Hz IPT-1 CR-2

*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1,1.5,2,3,5,7.5,10)

DATE SURVEYED: July-10-

BOUCHER





COMPANY: TBS- ZAVITZ I.P. PROGRAM

Property: ZAVITZ TWP. COMPANY: TBS- ZAVITZ TWP.

LINE No. 2.50-S

ELECTRODE CONFIGURATION (DIPOLE DIPOLE)

NX ··· X ·· I

PLOTTING - X X: 50-M

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

INSTRUMENT PHOENIX IPV-4 SPECTRAL FREQUENCY 10 Hz

*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1,1 5,2,3,5.75 10)

DATE SURVEYED:

JULY - 10. 1989

OPERATOR:

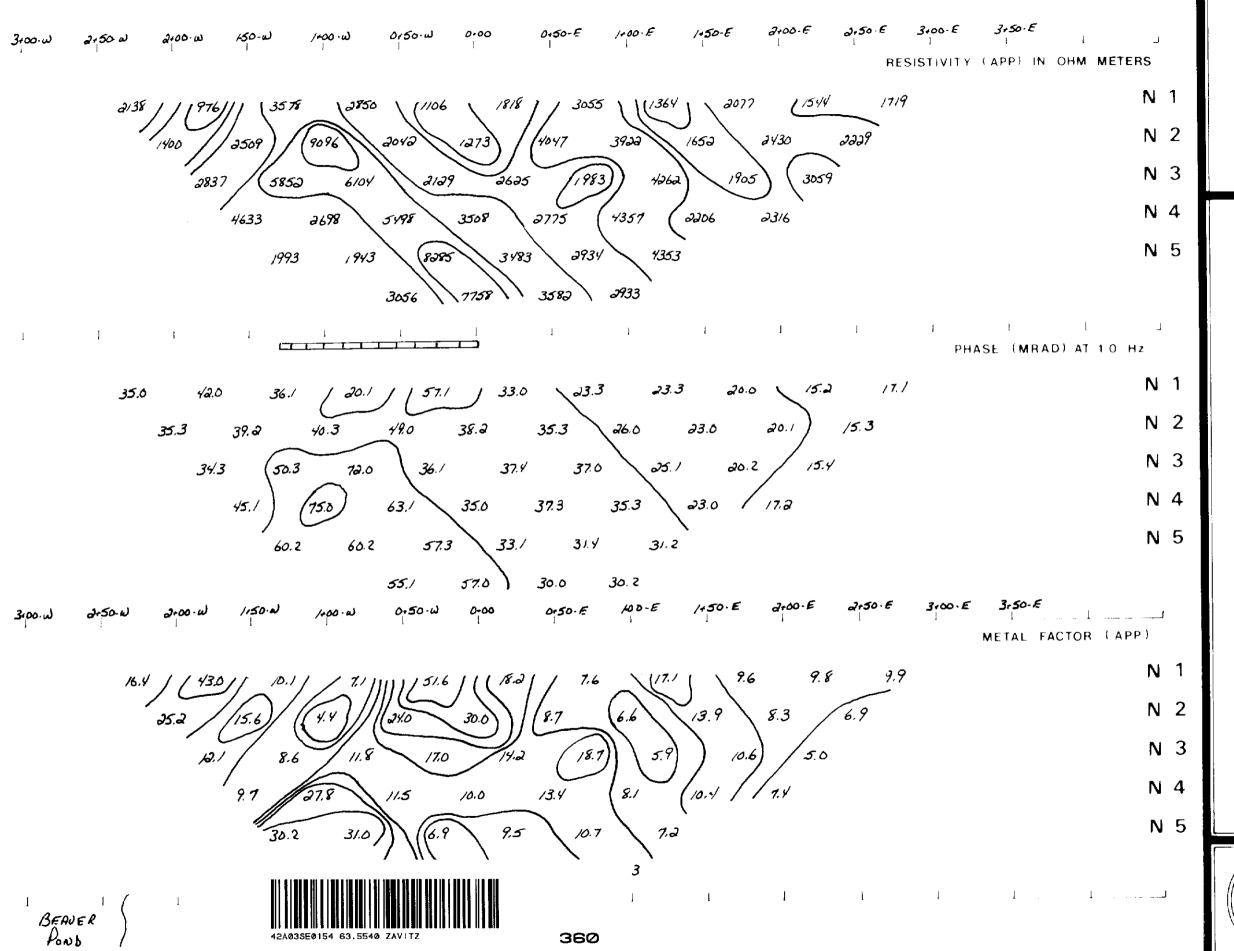
JEAN. GUY DUBÉ

APPROVED:

DATE:

July 19-8





COMPANY: TBS-ZAVITZ 1.P. PROGRAM

Property: ZAVITZ TWP.

OMIP 89-30 63:5540

LINE No. 2.00. 3

ELECTRODE CONFIGURATION
(DIPOLE DIPOLE)

- X -- NX -- X --

PLOTTING - X X: 50 M.

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE PROBABLE

INSTRUMENT PHOENIX IPV-4 SPECTRAL FREQUENCY 10 Hz

*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1,1.5,2,3,5,75.10)

DATE SURVEYED:

1989

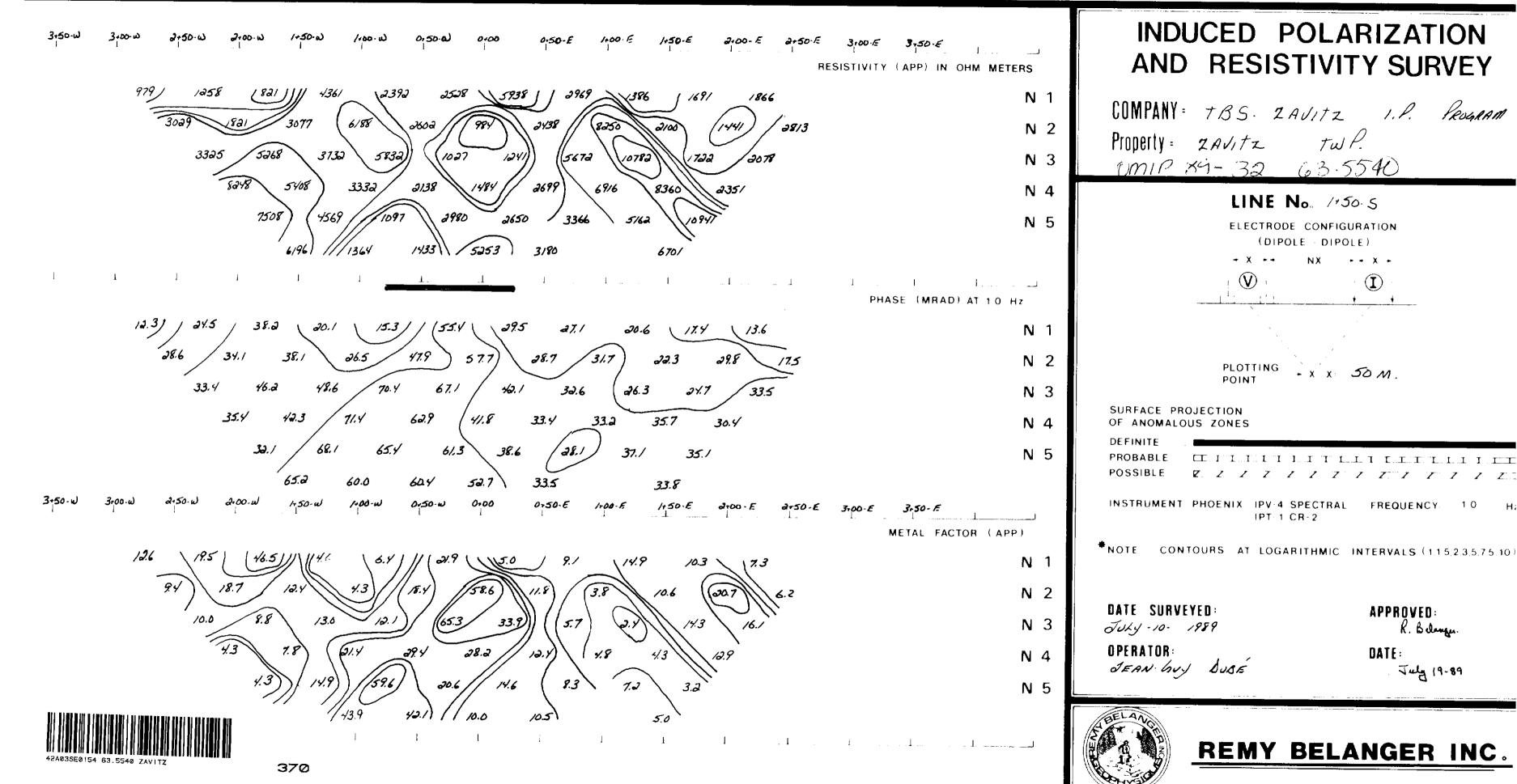
APPROVED:

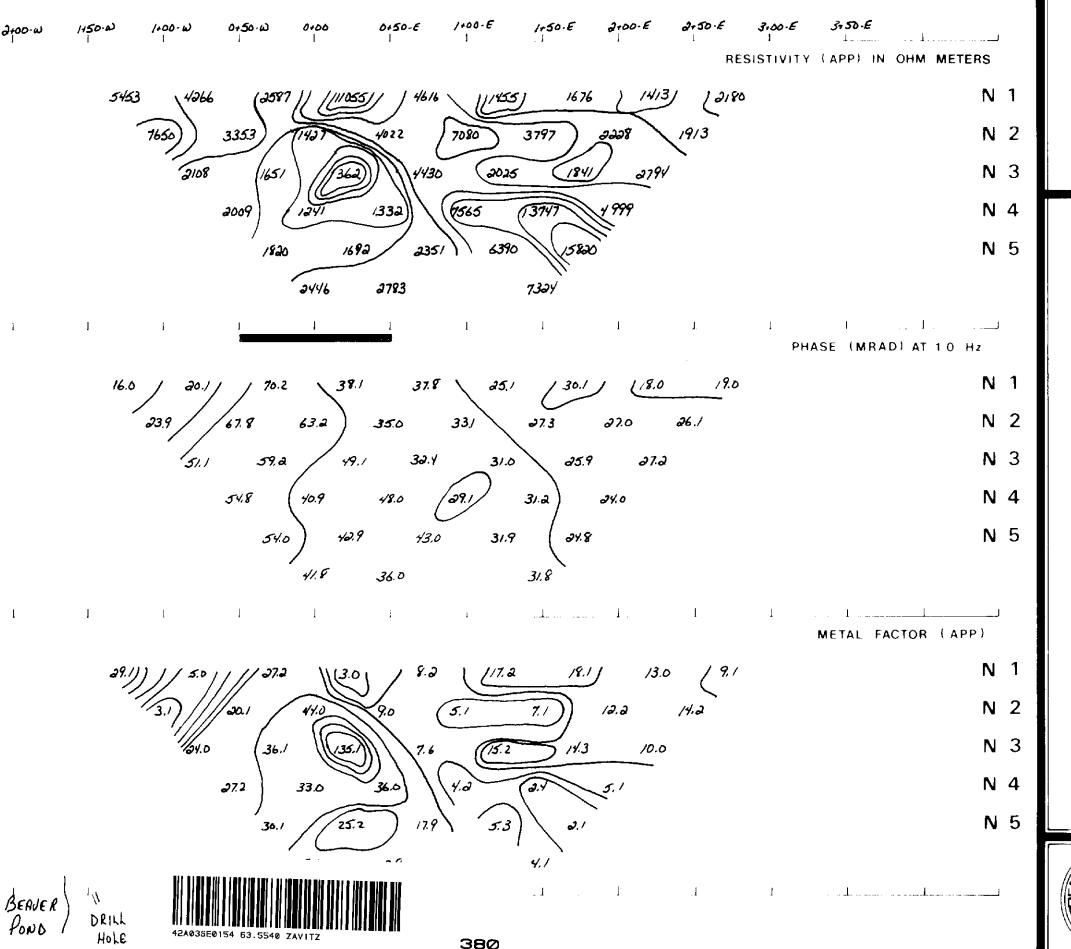
OPERATOR: YUES BOUCHER.

DATE

July 19-89







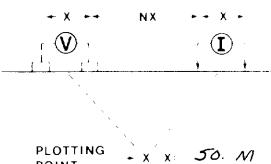
COMPANY = TBS - ZAVITZ 1.P. PROGRAM

Property = ZAVITZ TWP.

OMIP 89-32 63-5540

LINE No. 1.00. S

ELECTRODE CONFIGURATION (DIPOLE - DIPOLE)



SURFACE PROJECTION OF ANOMALOUS ZONES

INSTRUMENT PHOENIX IPV-4 SPECTRAL FREQUENCY 10 Hz

*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1.1.5,2.3,5.7.5.10)

DATE SURVEYED:

JULY - 07- 1989

OPERATOR:

JEAN- GUJ SUBE

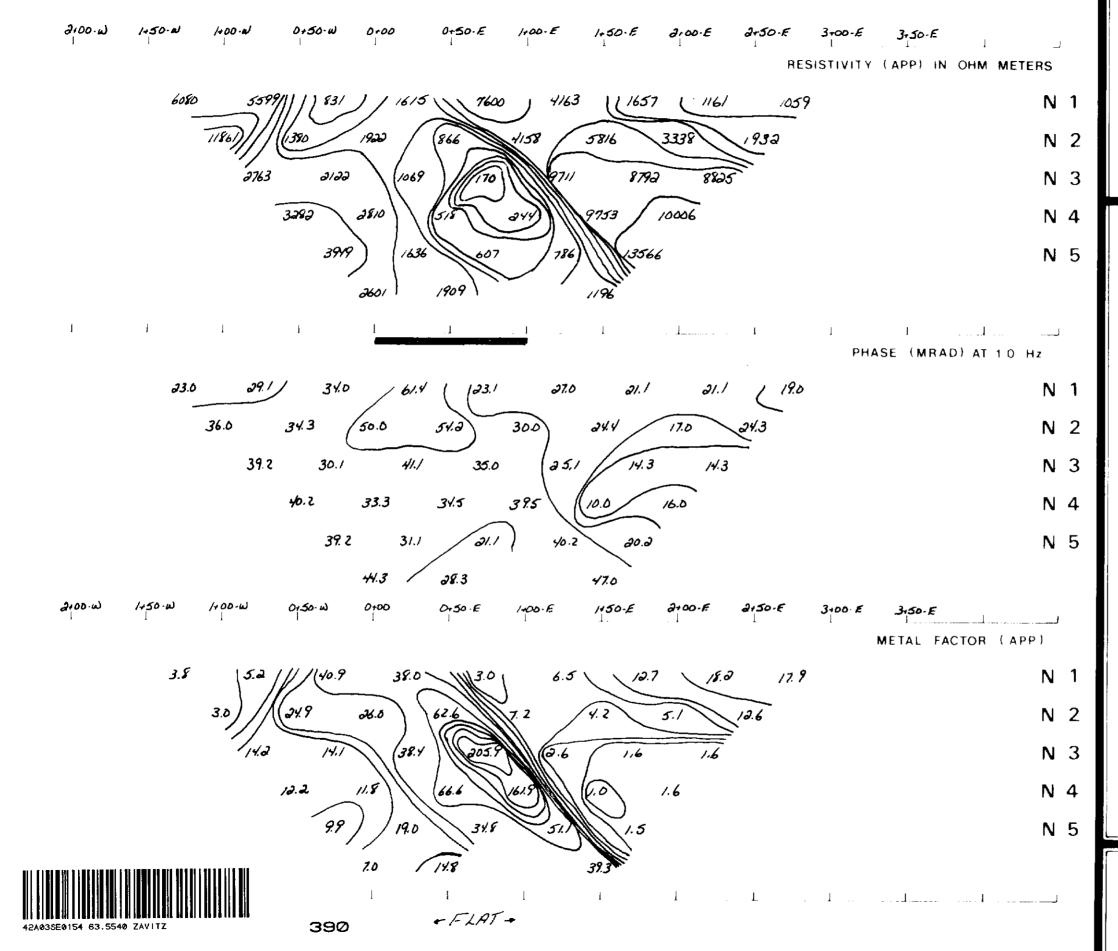
APPROVED:

K. Balanger

DATE:

July 19-89





COMPANY = TBS. ZAVITZ I.P. PROGRAM

Property = ZAVITZ TWP.

OMIP 49-30 (3.554)

LINE No. 0-50.5

ELECTRODE CONFIGURATION
(DIPOLE DIPOLE)

X X NX X X

PLOTTING + X X 50 M.

SURFACE PROJECTION
OF ANOMALOUS ZONES

DEFINITE

INSTRUMENT PHOENIX (PV-4 SPECTRAL FREQUENCY 10 Hz

*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1.15 2.3.5.7 5.10)

DATE SURVEYED:

JULY - 07- 1989

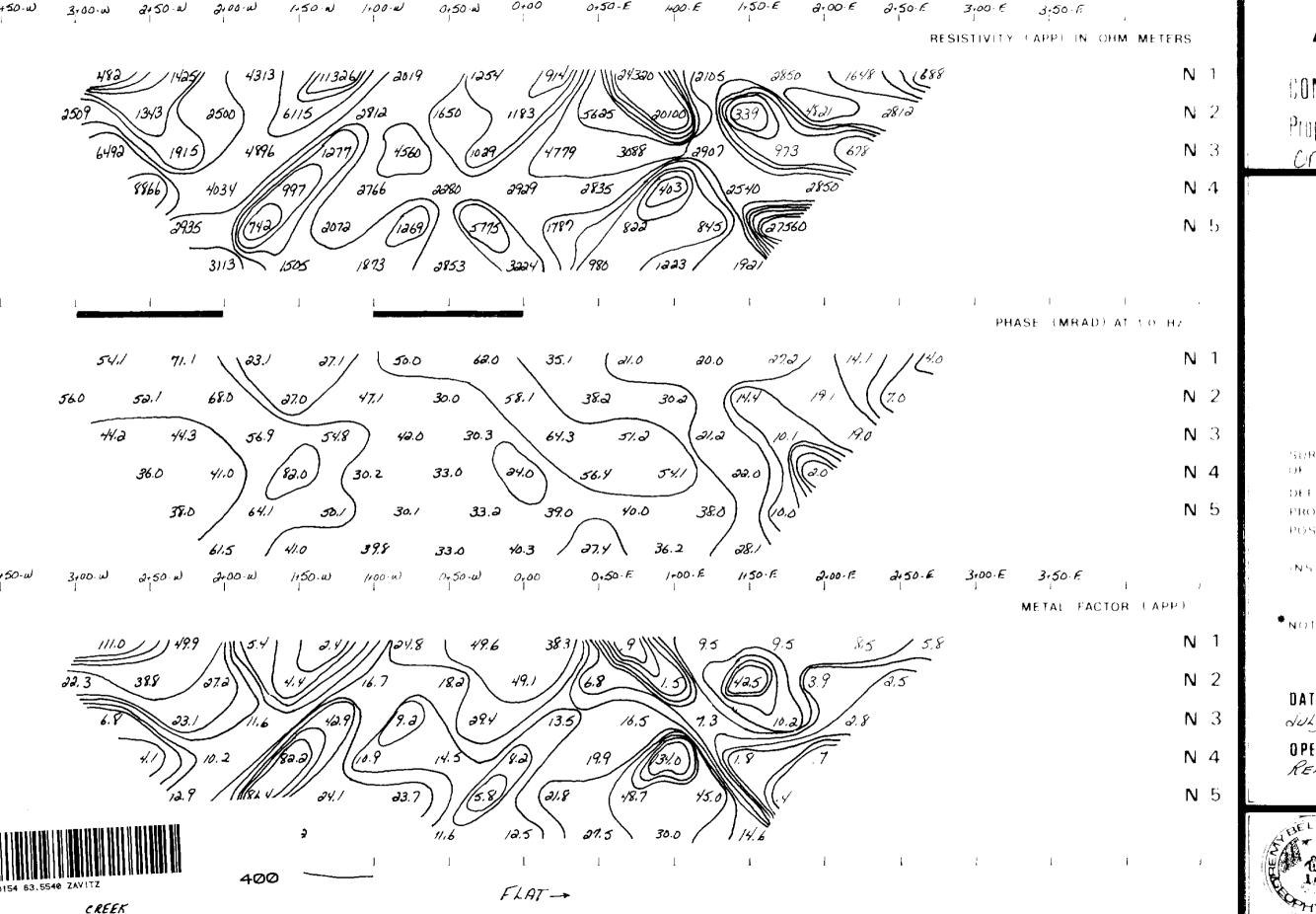
OPERATOR:

JUES BOUCHER

APPROVED:

DATE: July 19-89





COMPANY 135 ZAVITZ 11 IROGRAM

Property: ZAVITZ TWR

COMPONED HI-34 63.5540

LINE No.

FLECTRODE CONFIGURATION
(DIPOLE DIPOLE)

- X -- NX -- X -
(V)

PLOTTING - X X / 0 - At

SURFACE PROJECTION OF ANOMALOUS ZONES

INSTRUMENT PHOENIX IPV 4 SPECTRAL FREQUENCY 10 Hz

*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1,152.3,5.75.10)

DATE SURVEYED: July - 07- 1989 APPROVED:

OPERATOR:

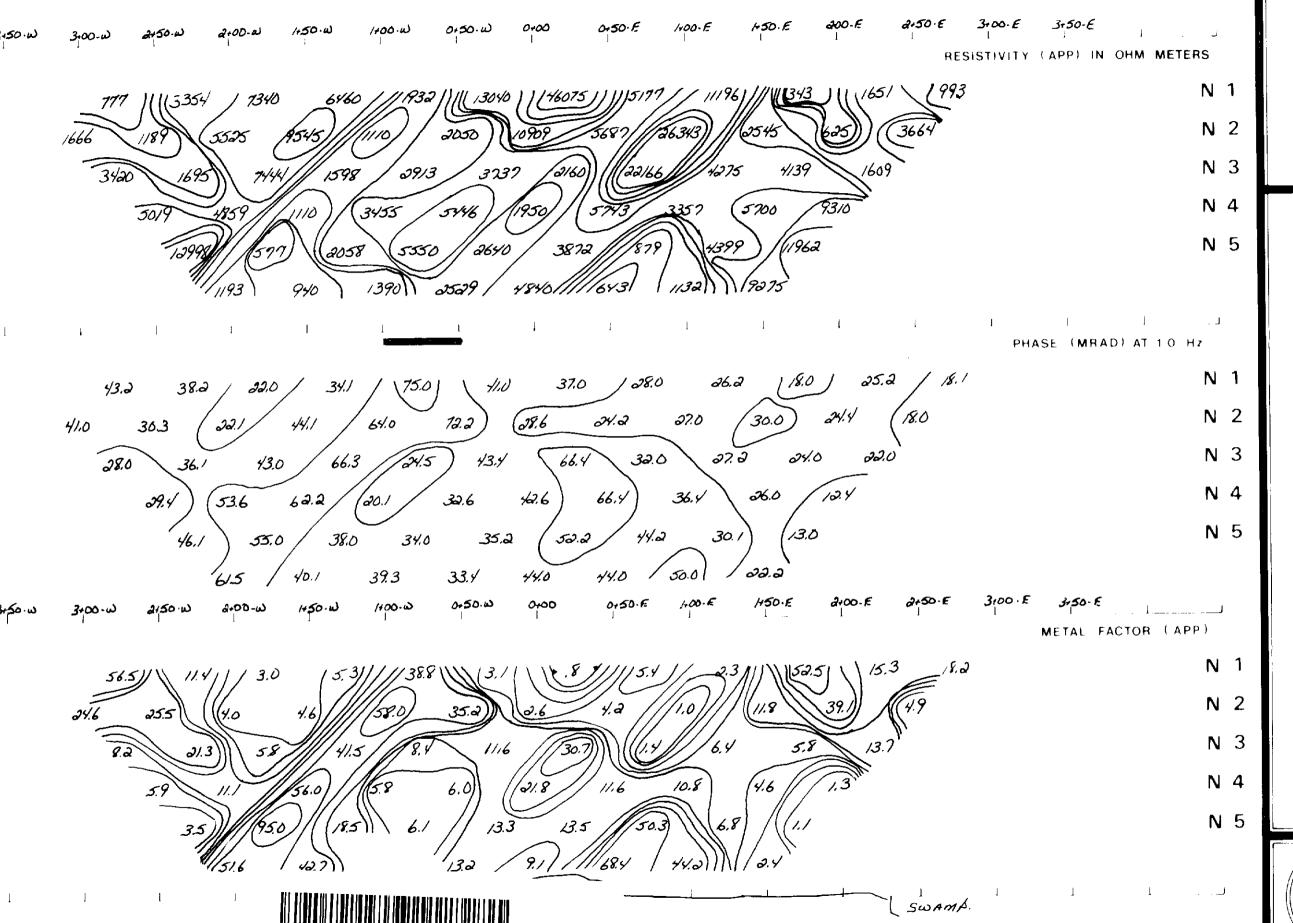
REMY BELANGER.

1416: July 19-89



REMY BELANGER INC

900



COMPANY: TBB-ZAVITZ 1.P. PROBLEM

Property: ZAVITZ TWP.

DM1(289-39 63.554)

LINE No. 0,50. N

(DIPOLE DIPOLE)

V I

PLOTTING - X X: 50 - M.

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE CONTRACTOR OF THE POSSIBLE CONTRACTOR OF THE PROBABLE CONTRACTOR O

INSTRUMENT PHOENIX IPV-4 SPECTRAL FREQUENCY 10 Hz
IPT 1 CR-2

*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1.1.5,2,3,5,7.5.10)

DATE SURVEYED: July-06. 1989 APPROVED:

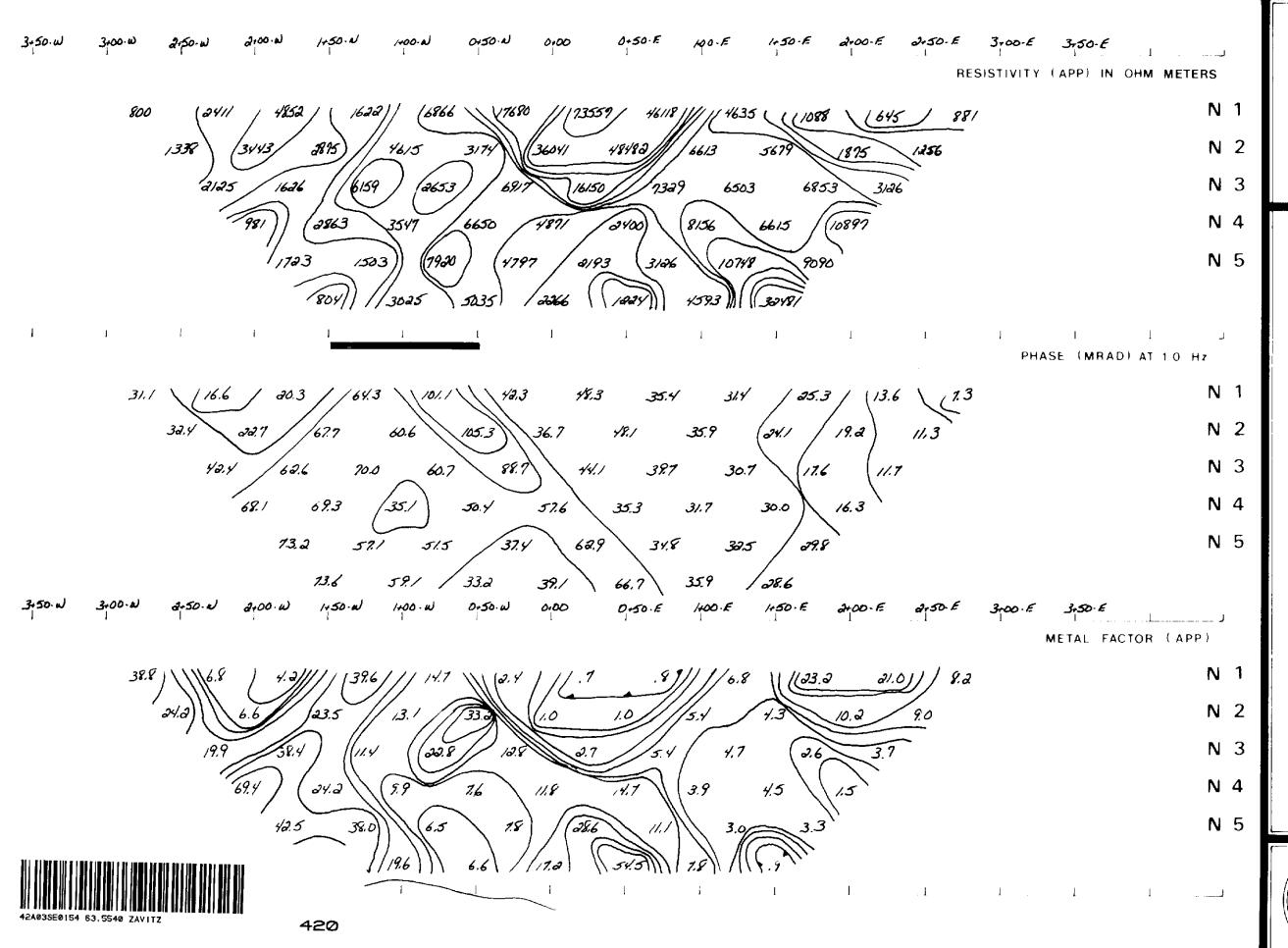
OPERATOR:

REMY BELANGER.

DATE

July 19-89





COMPANY: TBS. ZAVITZ 1.P. PROGRAM

Property: ZAVITZ TWP.

OMIP 89-32 63.5540

LINE No. 1100. N

ELECTRODE CONFIGURATION
(DIPOLE DIPOLE)
+ X ++ NX ++ X +

(1)

PLOTTING + X X 50 M.

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

INSTRUMENT PHOENIX IPV-4 SPECTRAL FREQUENCY 10 Hz
IPT 1 CR-2

*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1.15.2.3.5 75 10)

DATE SURVEYED: SULY-06- 198 APPROVED:

OPERATOR:

JEAN. GUY DUBE

DATE:

Fuly 19-69





430

INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY = 1 BS - ZAVITZ I.P. PROGRAM

Property = ZAVITZ TWP.

OMIC 39-32 63.5540

LINE No. 1+50-N

ELECTRODE CONFIGURATION
(DIPOLE DIPOLE)

- X -- NX -- X -
V

PLOTTING + X X: 50. M.

SURFACE PROJECTION OF ANOMALOUS ZONES

INSTRUMENT PHOENIX IPV-4 SPECTRAL FREQUENCY 10 Hz

*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1.15,2,3.5.7.5.10)

DATE SURVEYED:

SULY-06- 1989

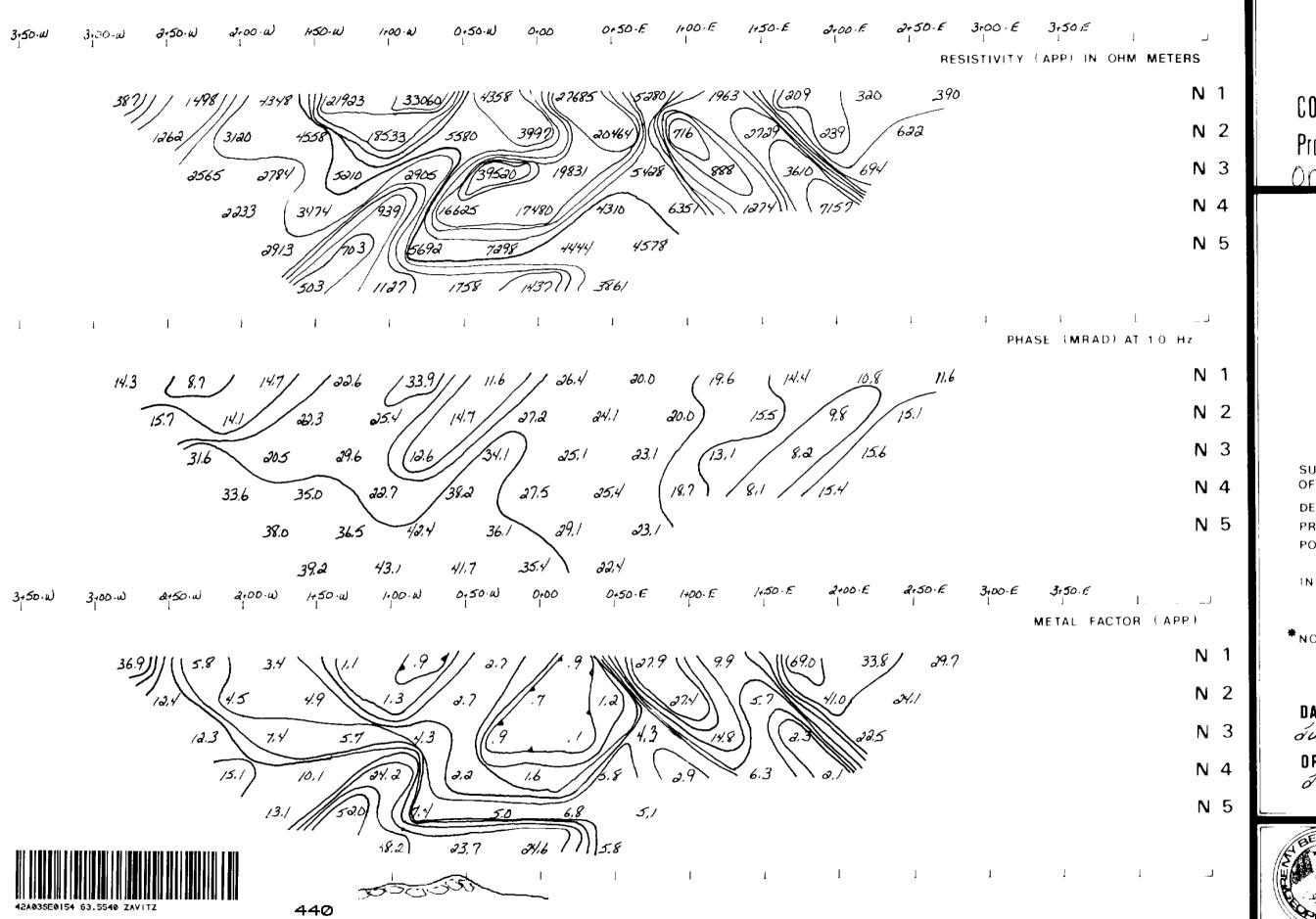
OPERATOR:

YUES BOUCHER

APPROVED: K. Belanzer.

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COMPANY = TBS-ZAVITZ IP. PROGRAM

Property = ZAVITZ TWP.

OMIP 89-32 63 5540

LINE No. 2+00. N

ELECTRODE CONFIGURATION (DIPOLE DIPOLE)

PLOTTING + X X 50 M.

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

INSTRUMENT PHOENIX IPV-4 SPECTRAL FREQUENCY 10 F

*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1.15,2,3.5.7.5.10)

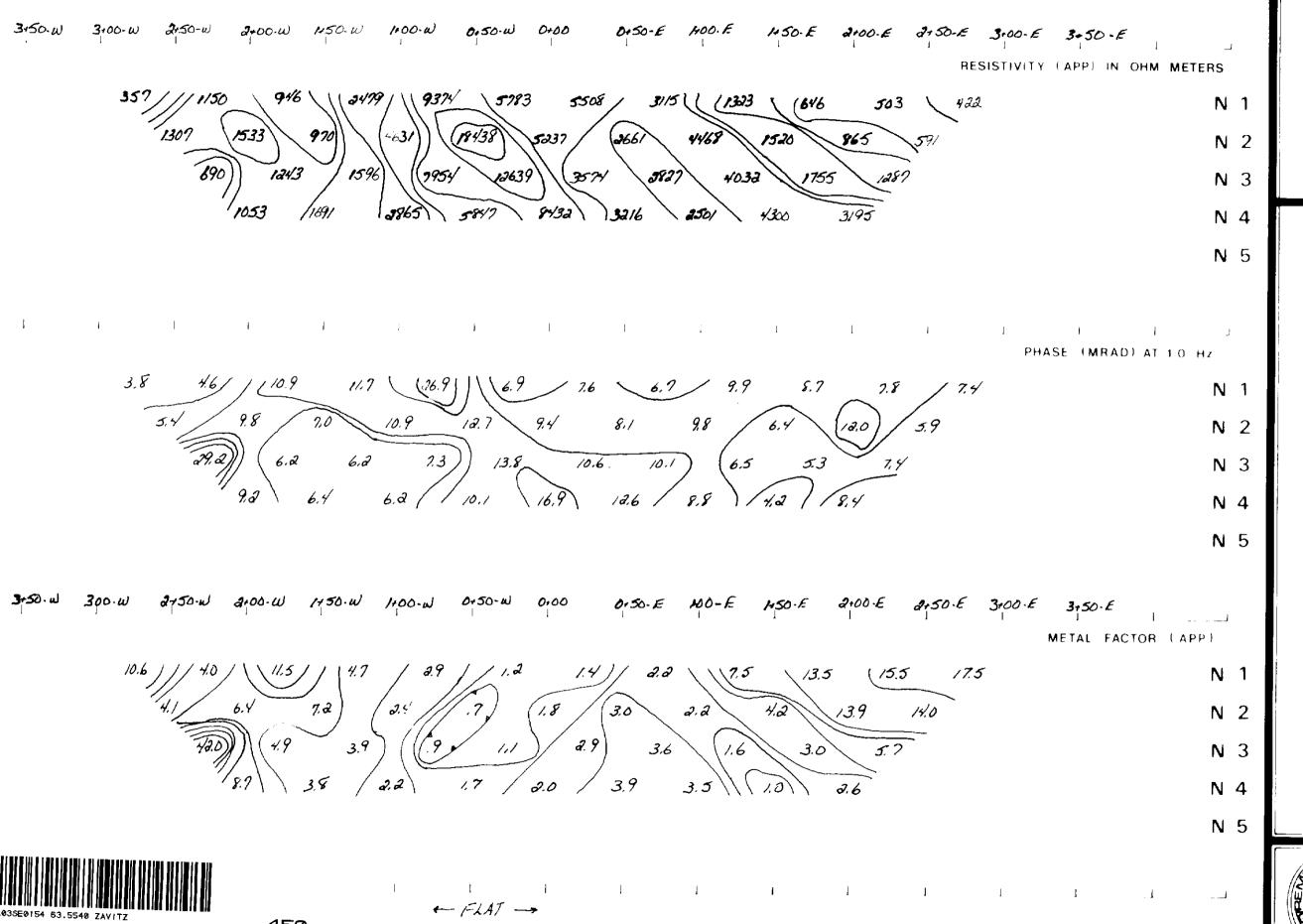
DATE SURVEYED:

APPROVED:

OPERATOR: SEAN GUY BUSE

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COMPANY = TBS - ZAVITZ I.P. PROGRAM Property: ZAVITZ TWP. 63.5540 OMIC 49-32

LINE No. 3+00-N

ELECTRODE CONFIGURATION

PLOTTING · x x TOM

SURFACE PROJECTION OF ANOMALOUS ZONES

INSTRUMENT PHOENIX IPV-4 SPECTRAL FREQUENCY 10

*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1.152.3.57.510)

DATE SURVEYED: JULY-05-

APPROVED:

OPERATOR: SEAN- GUY DUBE







Mining Claim

Entered

900

Ontario	Minir	ng Act				P-1027468	
Recorded in the Name of		Licence N	10.	Receipt No.	Date Recorded		
Daniel Bienias		M-212	89		October 2	8. 19 87	
Address					Date and Time of		P.T.
289 B Pine South, Timmins, Ont.					Oct. 17/8 AT 8:00		x
Office Use Only	Days	Ĭ		tion of Claim			
Assessment Work Credits Assigned to other Claims	Recorded	Balance	-ZAV	ITZ TOWNSH	HIP - M 1189		
	i	1					
			Reserva	tions - 400 foot Sand, gra	Surface Rights reserved vel and peat reserved	vation around all lakes :	and rive

Date	Days Work		Receipt No.
Oct. 17/88		(OC5) Commissioner extends time until and including July 31, 1989 for work and filing thereof. This Abstract is a copy of the entries in the Record Book and is not to be considered as Record Book and is not to be claim.)
		Record Book and is not to assurance of the validity of the claim.	
		MAY 18 1989	
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		Mining Recorder PORCUPINE MINING DIVISION	
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Ministry of Northern Development

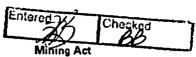
Mining Entered

Onlario						P-1027469
Ontario	Minir	ng Act				P-102/469
Recorded in the Name of		Licence N		Receipt No.	Date Recorded	
Daniel Bienias		M-212	289		October 28	3 , 19 87
Address		l			Date and Time of S	taking P.T.
289 B Pine South, Timmins, Ont.					Oct. 17/87	7
					AT 10:1	5 am X
Office Use Only	Days			tion of Claim	UZD W 3300	
Assessment Work Credits Assigned to other Claims	Recorded	Balance	-ZAVITZ TOWNSHIP - M 1189			
	1					
·			Reserva		Surface Rights reserval well and peat reserved.	tion around all lakes and rivers.
						1027468

Date	Days Work		Receipt No.
Oct. 17/88	Work	(OC5) Commissioner extends time until and including July 31, 1989 for work and filing thereof. This Abstract is a copy of the entries in the Record Book and is not to be considered as Record Book and is not to be considered as Resord Book and is not to be considered as Resord Book and is not to be considered as Resord Book and is not to be considered as Record Book and is not to be considered as	
		MINITO RESORDER PORCUPINE MINING DIVISION	
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Mining Claim



Claim No. P-1027470

Ontario	Minin	g Act		P-1027470		
Recorded in the Name of Daniel Bienias		M-212	•	Date Recorded . October 28, 1987		
289 B Pine South, Timmins, Ont.				Oct. 17 /87 AT 12:20	1	
Office Use Only	Days	l	Description of Claim	41D 4 1100		
Assessment Work Credits Assigned to other Claims	Recorded	Balance	·ZAVITZ TOWNSI	uth - W 1103		
1						
				Surface Rights reservativel and peat reserved.	ion around all lakes and rivers	
					ion around all lakes and river	
					ion around all lakes and rivers	
				ivel and peat reserved.	ion around all lakes and rivers . (File No.	

Date	Days Work		Receipt No.
Oct. 17/88		(OC5) Commissioner extends time until and including July 31, 1989 for work and filing thereof. (O8806.50174))
		This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim. MAY 18 1989	
		White SHOOTHER SHOON	
		OCHIA MININO DI	
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Northern Development Claim Ontario	Minin	ng Act	ecked			Claim No. P-1027471	
Recorded in the Name of Daniel Bienias		M-21		Receipt No.	October 28	3, 1987	
289 B Pine South, Timmins, Ont.		1			Oct. 17/87 AT 3:00	7	Р.Т.
Office Use Only Assessment Work Credits Assigned to other Claims	Days Recorded	Balance		Ption of Claim VITZ TOWNS	HIP - M 1189		1
			1 .	Sand, gra	Surface Rights reservativel and peat reserved. ND UNDER WATER	cion around all lakes a	and rivers.

Date	Days Work		Receipt No.
Oct. 17/88		(OC5) Commissioner extends time until and including July 31, 1989 for work and filing thereof. This Abstract is a copy of the entries in the (O8806.50174)	1)
		This Abstract is a copy of the entries Record Book and is not to be considered as Record Book and is not to be considered as Record Book and is not to be considered as Record Book and is not to be considered as	
		White 181989	
	_	Mining Recorder PORCUPINE MINING DIVISION	
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File No.

1027468



Mining Claim

Entered	Checked
12	PB

Mining Act

Claim No. P-1027472

	*******	ing mor				1	
Recorded in the Name of Daniel Bienias	Licence No. M-21289			Receipt No.	October 28	3, 1987	
289 B Pine South, Timmins, Ont.			-		Date and Time of S - Oct. 18 /87 AT 7:05	7 ·	P.T.
Office Use Only	Days	Balance		ion of Claim	UTD M 1100		
Assessment Work Credits Assigned to other Claims	Recorded	Balance	ZAVITZ TOWNSHIP - M 1189				
			_		Surface Rights reserval and peat reserved.	File No.	ind rivers
Days							

Date	Days Work		Receipt No.
Oct. 17/88		(OC5) Commissioner extends time until and including July 31, 1989 for work and filing thereof. This Abstract is a copy of the entries in the Record Book and is not to be considered as Record Book and is not to be considered as Resourance of the validity of the claim.)
		MAY 18 1989 White Mining Records: PORCUPINE MINING DIVISION	·
		· · · · · ·	



Mining Entered Claim Checked 83

Ontario	Mining Act						
Recorded in the Name of Daniel Bienias		Licence N M-212		Receipt No.	Date Recorded October 28, 1987		
289 B Pine South, Timmins, Ont.					Date and Time of S Oct. 18/8 AT 9:10	7	
Office Use Only	Days	Balance		tion of Claim	HIP - M 1189		
					vel and peat reserved.	tion around all lakes and rivers	
						File No. 1027468	

	Days		·
Date	Work		Receipt No.
Oct. 17/88		(OC5) Commissioner extends time until and including July 31, 1989 for work and filing thereof. (08806.50174)
		This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.	
		MAY 18 1989	
		Maning Recorder PORCUPINE MINING DIVISION	·
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		·	
	-	<u>.</u>	
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Checlasi Mining Entered Claim

Ontario	Minir	g Act			P-1027474			
Recorded in the Name of Daniel Bienias	<u>- </u>	Licence No. R. M-21289			Date Recorded October 28, 1987			
289 B Pine South, Timmins, Ont.		<u>.</u>			. Oct. 18 /8	37		
Office Use Only	Days			tion of Claim	UID M 3300			
Assessment Work Credits Assigned to other Claims	Recorded	Balance ZAV		ZAVITZ TOWNSHIP - M 1189				
			1					
;			_		avel and peat reserved.	ation around all lakes and rivers.		
						File No. 1027468		

Date	Days Work		Receipt No.
Oct. 17/88		(OC5) Commissioner extends time until and including July 31, 1989 for work and filing thereof. (O8806.50174)
		This Abstract is a copy of the entries in the Record Book and is not to be considered as Resourance of the validity of the claim.	
		MAX 18 1989	
· 		Mining Recorder PORCUPINE MINING DIVISION	
	ŀ		
		· · · · · ·	



Mining Enlered Checked Claim 83

Ontario	Minin	g Act			P-1027475		
Recorded in the Name of		Licence N			Date Recorded		
Daniel Bienias		M-212	189	1	October 28	3 , 19 8/	
289 B Pine South, Timmins, Ont.					Oct. 18 /87 AT 1:30	,	P.T.
Office Use Only	Days	I		tion of Claim			
Assessment Work Credits Assigned to other Claims	Recorded	Balance	. ZA	VITZ TOWNS	TOWNSHIP - M 1189		
		Reservations - 400 foot Surface Rights reservation Sand, gravel and peat reserved.		ion around all lakes	and rivers		
	<u> </u>					File No. 1027468	

Date	Days Work		Receipt No.
Oct. 17/88		(OC5) Commissioner extends time until and including July 31, 1989 for work and filing thereof. (O8806.50174)
		This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.	
		White	
• • • • • • • • • • • • • • • • • •		Mining Recorder PORCUPINE MINING DIVISION	·
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Mining Entered Claim Checked BB

Claim No.

1027468

Ontario	Mini	ng Act				P-1027476	
Recorded in the Name of Daniel Bienias		M-21		Receipt No.	Date Recorded October 28	. 1987	
289 B Pine South, Timmins, Ont.					Date and Time of Si - Oct. 19 /87 - AT 7:15	aking	P.T.
Office Use Only Assessment Work Credits Assigned to other Claims	Days Recorded	Balance - ZAVITZ TOWN			SHIP - M 1189		
					Surface Rights reservativel and peat reserved. DAD	ion around all lakes	and rivers.

Date	Days Work		Receipt No.
oct. 17/88		(OC5) Commissioner extends time until and including July 31, 1989 for work and filing thereof. (O8806.5017	1)
		This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.	
		WAY 18 1959	
		Mining Recorder PORCUPINE MINING DIVISION	
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Mining Entered Claim

Ontario	Minir	ng Act				P-1027477	
Recorped in the Name of Daniel Bienias	M-212		Receipt No.	Date Recorded October 28, 1987			
289 B Pine South, Timmins, Ont.	•	11-212	.03	<u> </u>	Date and Time of Si Oct. 19 /87 AT 9:20	taking P.T.	
Office Use Only Assessment Work Credits Assigned to other Claims	Days Recorded	Balance	Description of Claim				
				stions - 400 foot Sand, gra (CLUDING R	ivel and peat reserved.	ion around all lakes and rivers.	
						File No. 1027468	

Date	Days Work	·	Receipt No.
Oct. 17/88		(OC5) Commissioner extends time until and including July 31, 1989 for work and filing thereof. (O8806.50174)	1)
		This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.	•
		MAY 18 1989	
		Mining Recorder PORCUPINE MINING DIVISION	
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Mining Entered Claim

Ontario	Mini	ng Act	P-1027478				
Recorded in the Name of Daniel Bienias		M-212			October 2		
289 B Pine South, Timmins, Ont.				·	Date and Time of 5 - Oct. 19 /83 AT 11:30	itaking 7	P.T.
Office Use Only	Days	Balance		tion of Claim			
Assessment Work Credits Assigned to other Claims	Recorded			itions - 400 foot	evel and pest reserved.	vation around all lakes and r	
						File No. 1027468	·
Days Days							

Date	Days Work		Receipt No.
Oct. 17/88		(OC5) Commissioner extends time until and including July 31, 1989 for work and filing	
		including July 31, 1989 for work and filing thereof. This Abstract is a copy of the entries in the considered as Record Book and is not to be considered as Record Book and is not to be claim. **This Abstract is a copy of the entries in the considered as Record Book and is not to be considered as Record Book and is not to be claim.	1)
		MAY 18 1989	
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		PORCUPINE MINING DIVISION	
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Mining Checked Checked

Ontario	Mintr	g Act				P-1027479		
Recorded in the Name of		Licence N	Ο.	Receipt No.	Date Recorded	*		
Daniel Bienias		'M-212	89		October 28	3 . 19 87		
Address				L	Date and Time of S	_		
289 B Pine South, Timmins, Ont.					Oct. 19/87 AT 2:00			
Office Use Only	Days		Descrip	tion of Claim				
Assessment Work Credits Assigned to other Claims	Recorded	Balance	°° -ZAVITZ TOWNSHIP - M 1189					
			Reservations - 400 foot Surface Rights reservation around all lakes and r Sand, gravel and peat reserved.					
	-EXCLUDING ROAD							
				٠				
			i			File No.		
		L	<u> </u>			1027468		

	Date	Days		
_		Work		Receipt No.
	Oct. 17/88		(OC5) Commissioner extends time until and including July 31, 1989 for work and filing thereof. This Abstract is a copy of the entries in the Record Book and is not to be considered as Record Book and is not to be considered. (O8806.5017	1)
			Record Book and is not to the claim. assurance of the validity of the claim. MAY 18 1989	
			Suff.	
			Mining Recorder PORCUPINE MINING DIVISION	
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Mining		
Mining Claim	Entered //	Checked

	ng Act				P-1027480	
			Receipt No.	October 28, 1987		
			<u> </u>	· Oct. 20 /8	7	P.T.
Days	Balance					
		Reservations - 400 foot Surface Rights reservation around all la Sand, gravel and peat reserved. - INCLUDING LAND UNDER WATER				and rivers
			·		File No.	
	Minit	M-212	Mining Act Licence No. M-21289 Days Recorded Balance 7ZA	Mining Act Licence No. M-21289 Pays Recorded Balance Description of Claim 7ZAVITZ TOWNS Reservations - 400 foot Sand, gra	Mining Act Licence No. Receipt No. Date Recorded October 2 Date and Time of S Oct. 20 /8 AT 9:00 Days Recorded Balance Description of Claim 7ZAVITZ TOWNSHIP - M 1189 Reservations - 400 foot Surface Rights reserved.	Mining Act Licence No.

Date	Days Work		Receipt No.
Oct. 17/88		(OC5) Commissioner extends time until and including July 31, 1989 for work and filing thereof. This Abstract is a copy of the entries in the Record Book and is not to be considered as Record Book and is not to be considered as assurance of the validity of the claim.	4)
		MAX 18 1989	
		Mains Records PORCUPINE MISSING DIVISION	



Mining Entered Checked
Claim

Ontario	Minir	P-1027481					
Recorded in the Name of		Licence N	lo.	Receipt No.	Date Recorded	<u> </u>	
Daniel Bienias	•	M-212	289		October 28	3 . 19 87	
Address					Date and Time of St	aking	Р.Т.
289 B Pine South, Timmins, Ont.					Oct. 20/87		x
Office Use Only	Days		Descrip	tion of Claim		· · · · · · · · · · · · · · · · · · ·	
Assessment Work Credits Assigned to other Claims	Recorded	Balance	ZAVITZ TOWNSHIP - M 1189				
	ļ						
			Reserve		Surface Rights reservativel and peat reserved.	ion around all lakes	and rivers.
			110	LUDING LA	ID UNDER WATER		
			}				
						File No.	
						1027468	

Date	Days Work		Receipt No.
Oct. 17/88		(OC5) Commissioner extends time until and including July 31, 1989 for work and filing thereof. (O8806.5017)	4)
		This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.	
		Mining Recorder PORCUPINE MINING DIVISION	
		PORCUPINE MINING DIVISION	
			



Mining Claim	Entered B	Checked 22

Ontario	Minir	g Act	_			P-1027482	
Recorded in the Name of		Licence N	lo.	Receipt No.	Date Recorded	L	
Daniel Bienias		M-212	289		October 28	3 . 19 87	
Address				·	Date and Time of S	taking P.1.	
289 B Pine South, Timmins, Ont.					- Oct. 20 /87 - AT 1:00	· · · · · · · · · · · · · · · · · · ·	
Office Use Only	Days	l .	Descri	ption of Claim			
Assessment Work Credits Assigned to other Claims	Recorded	Balance	CO ZAVITZ TOWNSHIP - M 1189				
			1				
		:		Sand, gr	t Surface Rights reservate avel and peat reserved. ND UNDER WATER	ion around all lakes and rivers.	
						File No.	
		<u> </u>	<u>l</u>			1027468	

Date	Days Work		Receipt No.
Oct. 17/88		(OC5) Commissioner extends time until and including July 31, 1989 for work and filing thereof. (O8806.5017	4)
		This Abstract is a copy of the entries in the Becard Book and is not to be considered as assurance of the validity of the claim.	
		MAY 18 1989	
		White	
		Mining Recorder PORCUPINE MINING DIVISION	
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Recorded in the Name of

Ministry of Northern Development and Mines

RICHARD BRENT MCALLISTER

Mining Claim

Claim No. P-1087850 Mining Act Licence No. Date Recorded M-23728 October 17, 1988 Date and Time of Staking P.T. 124 Tamarack Street, Timmins, Ontario Oct. 6/88 AT: 11:00 a.m. x

Office Use Only	Days	Balanca	Description of Claim			
Assessment Work Credits Assigned to other Claims	Recorded	Balance				
			ZAVITZ TOWNSHIP M-1189			
			Reservations - 400 foot Surface Rights reservation around all lakes and rivers Sand, gravel and peat reserved.			
			File No.			
		i	R8806.50263			

Date	Days Work	7.7.	
Oct. 17/88		(T10) Brent McAllister (M-23728) tran Canadian Nickel Company (A-17527).	sfers 100% to (T8806.50214)
		This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.	
		MAY 18 1989	
		Mining Recorder PORCUPINE MINING DIVISION	
			.

(P)	Ministry of Northern Dev	/elopment	Mining Claim							
Ontario	and Mines		3 16						Claim No.	
				Minir	ng Act				P-1087851	
	in the Name o						Licence No.	Date Recorded		
	HARD BR	ENT M	CALLISTER				M-23728	October	17, 1988	
Address							L	Date and Time of S	itak ing	P.1.
124	Tamara	ck St	reet, Timm	ins, O	ntari	0		Oct. 6/88		×
	Of	fice Use O	nly	Days		Descrip	tion of Claim			
Assessn	Assessment Work Credits Assigned to other Claims				Balance	ZA	VITZ TOWN	SHIP M-11	89	
				 		1 -	1111 10111	.0	.07	
				1	ļ	1				
				1	l	Reserva	tions - 400 foot S	urface Rights reserva	tion around all lakes	and river
					1		Sand, grave	and peat reserved.		
					İ	IN	CLUDNG LA	ND UNDER W	ATER	
					ļ					
					j					
İ				1					File No.	
				1					R8806.502	63
						l			1.000000	
	Date	Days		 -				· · · · · · · · · · · · · · · · · · ·		
ļ		Work			·	· · · · · · · · · · · · · · · · · · ·				
Oct	. 17/88	<u></u> ,	(T10) Bren Canadian N	t McAl	llist	er (N any (4-23728) (A-17527).		100% to (T8806.502)	14)
				This Reco	Abstract ord Books urance of	the valid	of the entries in to be considered ity of the claim.	the i as		
					8	W	1989 Lile	_		

Mining Recorder
PORCUPINE MINING DIVISION



Ministry of Northern Development

Mining

Ontario Claim	Minir	ng Act			Claim No. P-1087852	
Recorded in the Name of RICHARD BRENT MCALLISTER			Licence No. M-23728	Date Recorded October		
124 Tamarack Street, Timm	ins, O	ntari	io	Oct. 6/8 AT: 15:	8	P.T
Office Use Only Assessment Work Credits Assigned to other Claims	Days Recorded	Balance	Description of Claim ZAVITZ TOW	NSHIP M-1	189	
; 			Reservations - 400 foot S	Surface Rights reserv.	ation around all lakes a	nd rive

File No. R8806.50263 Days Work Date Oct. 17/88 (T10) Brent McAllister (M-23728) transfers 100% to Canadian Nickel Company (A-17527). (T8806. (T8806.50214) This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim. Mining Recorder.
PORCUPINE MINING DIVISION



Ministry of Northern Development end Mines Mining Claim						Claim No.	
Ontario	Minir	ng Act				P-1087587	,
Recorded in the Name of			Li	cence No.	Date Recorded	1= 555000	
RICHARD BRENT MCALLISTER			N	1-23728	October	17, 1988	
Address					Date and Time of S		P. 1
124 Tamarack Street, Tim	mins, O	ntari	0		Oct. 5/88		1
	_				AT: 15:0	0	l _x
Office Use Only	Days		Descriptio	n of Claim			
Assessment Work Credits Assigned to other Claims	Recorded	Balance	ZAVI	TZ TOWN	SHIP M-11	89	
;			Reservatio	ns - 400 foot S Send, grav	iurface Rights reserva el and peat reserved.	File No.	

Date	Days Work		
Oct. 17/88			100% to (T8806.50214)
		This Abstract is a co. Yet the entries in the necord Book and is not to the considered as assurance of the variety of the claim.	
		MAY 18 1989.	
		Mining Recorder PORCUPINE MINING DIVISION	
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Mining Claim

ntario			Minin	ig Act				P-108758	38
ecorded in the Name of	f					icence No.	Date Recorded	·	
RICHARD BRE	ENT MC	ALLISTER			1	M-23728	October	17, 1988	
ddress	.l. C.				_		Date and Time of S	taking	
124 Tamarac	K Str	eet, limmi	ns, Or	ntarı	0		Oct. 5/88 AT: 13:0	n	
			,	·····	I Danieri	on of Claim	13.0		1
	ice Use Or		Days Recorded	Balance					
Assessment Work Cred	its Assigne	o to other Claims		 	ZAV	ITZ TOWN	SHIP M-11	89	
		i			l				
			1	Ì	Reservat		Surface Rights reserva	tion around all lake	es and
				İ		Sallo, yiai	rei eno pest reserveo.		
			}						
			1		INC	LUDING I	AND UNDER	WATER	
					1			File No.	
			ļ	1				R8806.50	026
									
Date	Days Work		,						
Oct. 17/88		(T10) Brea	nt Mc/	Allis	ter (M-23728)	transfers	100% to	
							·)•		214
					- ·				
		T	his Abstra	ict is a col	py of the	intries in the			
			lecord Boo	nk and is n	iot to de c	Obsideren as			
	ļ	a	ssurance (of the vali	iony or un	C C.L.			
									
		1		MAY 1	8 1989,				
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			POR	CUPINE	INING E	IVISION	<u> </u>		
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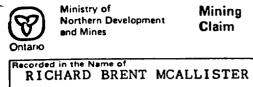
Mining Claim

and Mines		Oldiiii						Claim No.	
Ontario			Minin	g Act				P-1087	589
R. led in the Name o	f				T	Licence No.	Date Recorded	1	
RICHARD BRE	ENT MC	ALLISTER				M-23728	October Date and Time of S		Р.Т.
124 Tamarac	k Str	eet. Timmi	ns. Or	ntari	^		Oct. 5/88	iravinā	F.1.
			, 0.					0 a.m.	x
Of	fice Use O	nly	Days	1	Descript	ion of Claim	<u> </u>		
Assessment Work Cred	lits Assigne	ed to other Claims	Recorded	Balance	ZAV	ITZ TOWNS	SHIP M-11	89	
			1	ł	1				
					Reservat		urface Rights reserva	tion around all	lakes and rive
				}		Sand, grave	el and peat reserved.		
				Ì	1				
				1	i			File No.	
								R8806.	50263
Date	Days Work								
0 1 17/00		(mag) =							
Oct. 17/88							transfers		
		Canadian				the entries in the	•	(T8806.	50214)
			This Ab	Book and	is not to	be considered as			
		 	assurar	nce of the	validity (of the claim.			
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Mining Claim

	and Mines		Ciann						Claim No.	
Ontario				Minis	ng Act				P-10875	590
Recorded	in the Name o	f	······································	·			Licence No.	Date Recorded		-
RIC	HARD BRE	ENT MO	CALLISTER				M-23728	October	17. 1988	
Address								October Date and Time o		Р.Т.
124	Tamara	k St	reet, Timmi	ns, O	ntari	0		Oct. 5/8		1
								AT: 9:0	0 a.m.	x
	Of	ice Use O	nly	Days		Descrip	tion of Claim			
Assess	nent Work Cred	its Assign	d to other Claims	Recorded	Balance	ZA	VITZ TOWN	SHIP M-1	189	
]			,	
				ł	1	L				
				1		Reserva		urface Rights reserve		lakes and river
				•			55.15, g .644	or and peat reserve	u.	
					ļ	ŀ			CF	
					ì	ļ			File No. R8806.5	:0242
L				.L	1	.1			18000.5	0203
Γ	D-44	Days								
	Date	Work								
064	. 17/88		(T10) P	. A. M. A	1112-4		M 22220\	4	3000 4	<u></u> -
	. 11700		(T10) Brei Canadian I						T8806.	E0214\
			Canadian i	AICKEI	Comp	Dany	(H-11521)	•	(10000.	50214)
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				Recor	d Book an	id is not 1	o pe considered a	ıs		
				assure	nce of th	e validity	of the claim.	-		
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Mining Claim

Mining Act

Claim No. P-1087591

Date Recorded October 17, 1988

Licence No.
M-23728

ress			Oct. 6/88	1
24 Tamarac	ek Str	eet, Timmins, Ontario		
, E4 lamalac		cot, liming, ontallo	AT: 9:00	a.m.
Off	ice Use On	Balance 1		
sessment work Crea	its Assigned	ZAVITZ TOWNS	SHIP M-118	39
		Reservations - 400 foot Su	urface Rights reservat	ion around all lakes and r
		Sand, grave	and peat reserved.	
				,
				File No.
				R8806.50263
Dana	Days			
Date	Work			
0-4 17/0		(T10) Dana Mallinton (M. 22720)	4 man a f a m a	1009 40
Oct. 17/8	P	(T10) Brent McAllister (M-23728)	transiers	100% to
]	Canadian Nickel Company (A-17527	, .	(T8806.50214
		i Alia		
		This Abstract is a copy of the entries in the		
		This Abstract is a copy of the entire Proceed Book and is not to be considered as Record Book and is not to be considered as		
		Record Book and is not to be control assurance of the validity of the claim.		
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Ministry of

Mining

and Mines Claim	Minir	ng Act				Claim No. L 1032812	 -
Recorded in the Name of Michael W. Peplinski		Licence N		Receipt No.	Date Recorded		
P.O. Box 2265 TIMMINS, Ontario P4N 7X8		M 21		5763	March 25 Date and Time of S March 17 at 2:40	, 1988	τ. τ. Χ
Office Use Only Assessment Work Credits Assigned to other Claims	Days Recorded	Balance	HIN		SHIP (M-223)	
			Reserv	Sand, gre	Surface Rights reservativel and peat reserved.	er The Mining	
	<u> </u>		<u> </u>			L 1032812	

Date	Days Work		Receipt No.
Apr.5/88		(Tl) Michael Peplinski transfers 100% interest to	
		Ralph E. Allerston (M-13613) (170/88)	***********
Apr. 3/89		(OC5) Commissioner extends time until and	
		including December 15, 1989 for work and filing	
		thereof. (178/89)	
		This Abstract is a copy of the entries in the Record Book and is not to be con-	
•		sidered as assurance of the validity of the claim	
····		JUN - 9 1989	
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		Mining Recorder LARDER LAKE MINING DIVISION	
			
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Ministry of

Mining

and Mines Claim						Claim No.	
Ontario	Minir	ng Act			L 1032813		
Recorded in the Name of		Licence N	lo.	Receipt No.	Date Recorded		
Michael W. Peplinski		M 21	221	5763	March 25	. 1988	
Address					Date and Time of S	taking	P.T.
P.O. Box 2265 TIMMINS, Ontario P4N 7X8					March 17 at 12:00	, 1988	l _x
Office Use Only	Days	I	Descri	ption of Claim	1 21 12100	110011	- 10
Assessment Work Credits Assigned to other Claims	Recorded	Balance	HIN	CKS TOWN	SHIP (M-223)	
			For	mer 876	610		
			Reserv		Surface Rights reservativel and past reserved.	tion around all lak	es and rivers.
			ŀ			File No.	
	1		1			L 1032	812

Date	Days Work		Receipt No.
Apr.5/88		(Tl) Michael Peplinski transfers 100% interest t	0
<u> </u>		Ralph E. Allerston (M-13613) (170/88)	
Apr. 3/89		(OC5) Commissioner extends time until and	
· · · · · · · · · · · · · · · · · · ·		including December 15, 1989 for work and filing	
	ļ	thereof (178/89)	
		This Abstract is a copy of the entries in the Pacord Brook and is not to be considered as assurance of the validity of aldered as assurance of the validity of	
	<u></u>	aldered as assurance of the claim.	
		BUS-2 1883	
		ma Weinmen	
	<u> </u>	mining fisherion Larder Lake mining division	

(P)
W
Antonia

Northern Development Claim						Cleim No.	
Ontario	Minin	g Act				L 1032	814
Recorded in the Name of		Licence N	lo.	Receipt No.	Date Recorded		
Michael W. Peplinski		M 21	221	5763	March 25		
Address					Date and Time of S	taking	P.T.
P.O. Box 2265					March 17	, 1988	i
TIMMINS, Ontario P4N 7X8					at 9:35	a.m.	Х
Office Use Only	Days	Balance	Descri	otion of Claim			
Assessment Work Credits Assigned to other Claims	Recorded				SHIP (M-223)	
			For	mer 8766	11		
			Reserv	etions - 400 foot Send, gra	tion around all lak	es and rivers	
			Other reservations under The Act may apply.			er The Mi	ning
		1				File No.	
		1	1			L 1032	812

Date	Days Work			Receipt No
Apr.5/88		(T1) Michael Peplin	nski transfers 100% intere	st to
		Ralph E. Allerston	(M-13613) • (170/88)	
Apr. 3/89		(OC5) Commissioner e	xtends time until and	
		including December 1	5, 1989 for work and filin	ng
	1	thereof.	(178/	39)
		This Abstra	ct is a copy of the entries in Rook and is not to be con-	···
•		the Record sidered as the claim.	Rook and is not to be set assurance of the validity of	
			JUN - 9 1989	
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		LARDE	Mining Records: ER LAKE MINING DIVISION	
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Ministry of Mining Northern Development Claim	Minir	ng Act]	Claim No.	
Michael W. Peplinski Address P.O. Box 2265		Licence N M 21		Receipt No. 5763	Date Recorded March 25, Date and Time of St March 17,	, 1988 aking , 1988	ел.
TIMMINS, Ontario P4N 7X8 Office Use Only Assessment Work Credits Assigned to other Claims	Days Recorded	I Balanca	at 7:15 a.m.				
						File No. L 1032	812

Date	Days Work				Receipt No.					
Apr.5/88		(T1) Michael Pe								
		Ralph E. Allers	Ralph E. Allerston (M-13613) (170/88)							
Apr. 3/89		(OC5) Commission	(OC5) Commissioner extends time until and							
		including Decemb	oer 15, 1989 for wor	k and filing						
		thereof.		(178/89)						
			This Abstract is a copy of the entries in the Record Book and is not to be con-							
			sidered as assurence of the validity of the claim.							
			JUN - 9 1989		· · · · · · · · · · · · · · · · · · ·					
			M. a. Wirmen							
			Mining Recorder LARDER LAKE MINING DIVISION							
				,						
840 (86/4)		-								



Mining

Ontario Northern Development Claim	Minir	ng Act				Claim No. L 10328	16
Recorded in the Name of Michael W. Peplinski		Licence		Receipt No.	Date Recorded	<u> </u>	
Address	<u></u>	<u>M 2</u>	1221	5763	March 25 Date and Time of St	1988 taking	P.T.
P.O. Box 2265 TIMMINS, Ontario P4N 7X8					March 16 at 2:45		Y
Office Use Only Assessment Work Credits Assigned to other Claims	Days Recorded	Balance		otion of Claim	ISHIP (M-223	•	
				mer 8766		,	
	Reservations - 400 foot Surface Rights res Sand, gravel and peat reserv					tion around all lakes	end rivers
		:		ner reser may app	rvations und bly.	er The Min	ing
_						File No.	

Date	Days Work			Receipt No.
Apr.5/88		(Tl) Michael	Peplinski transfers 100% interest 1	t o
		Ralph E. All	lerston (M-13613)* (170/88)	
Apr. 3/89		(OC5) Commiss	ioner extends time until and	
		including Dec	ember 15, 1989 for work and filing	
		thereof-	(178/89)	
			This Abstract is access of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.	
			JUN - 9 1989	
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			M. a. Wirmen	
	<u> </u>		LARDER LAKE MINING DIVISION	
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Ontario (Minin	g Act				Claim No. L 1032	817
Recorded in the Name of		Licence N	0.	Receipt No.	Date Recorded		
Michael W. Peplinski	ŀ	M 21	221	5763	March 25		
Address					Date and Time of St	aking	₽.Т.
P.O. Box 2265					March 16	, 1988	1
TIMMINS, Ontario P4N 7X8					at 12:30	p.m.	X
Office Use Only D	ays.	Belance	1	otion of Claim	4	_	
Assessment Work Credits Assigned to other Claims Rec	orded	Belence	HINCKS TOWNSHIP (M-223)				
			For	mer 8766	1 4		
		i	Reserv		Surface Rights reservat	tion eround all lak	es and rivers
	i		}				
			1			File No.	
1		1	1			L 1032	812

Date	Days Work		Receipt No.						
Apr.5/88		(T1) Michael Peplinski transfers 100% interest	t c						
		Ralph E. Allerston (M-13613) • (170/88)							
Apr. 3/89		(OC5) Commissioner extends time until and							
		including December 15, 1989 for work and filing							
		thereof- (178/89)							
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· · · · · · · · · · · · · · · · · · ·		JUN - 9 1989							
		M. Q. Wewmen Mining Recorder LARDER LAKE MINING BIVISION							
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Northern Development Claim Ontario	Minir	ng Act				Claim No. L 1032	818
Recorded in the Name of		Licence N	٥.	Receipt No.	Date Recorded	* 	
Michael W. Peplinski		M 21	221	5763	March 25	, 1988	
P.O. Box 2265 TIMMINS, Ontario P4N 7X8					March 16 at 10:15	, 1988	X
Office Use Only Assessment Work Credits Assigned to other Claims	Days Recorded	Balance	HIN		SHIP (M-223)	
					82 Surface Rights reservat rel and peat reserved.	tion around all lake	s and rivers.
						L 1032	812

Dete	Days Work		Receipt No.
Apr.5/88		(Tl) Michael Peplinski transfers 100% interest to	
		Ralph E. Allerston (M-13613) (170/88)	
Apr. 3/89		(OC5) Commissioner extends time until and	
		including December 15, 1989 for work and filing	
		thereof: (178/89)	
		This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.	
		JUN - 9 1989	
		M. Q. Weismein Mining Recorder LARDER LAKE MINING DIVISION	
	<u> </u>	Entire Milling Division	
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Northern Development alid Mines Claim					Claim No.		
Ontario Mi	ning Act				L 1032	819	
Recorded in the Name of	Licence 1	No.	Receipt No.	Date Recorded	· · · · · · · · · · · · · · · · · · ·		
Michael W. Peplinski	M 21	221	5763	March 25			
Address				Date and Time of S	taking	P.T.	
P.O. Box 2265				March 16	, 1988	1	
TIMMINS, Ontario P4N 7X8				at 8:00	a.m.	x	
Office Use Only Days			ption of Claim				
Assessment Work Credits Assigned to other Claims Record	Balance	HINCKS TOWNSHIP (M-223)					
		Former 876615					
		Oth	Sand, gra	er The Mir			
					File No. L 10328	312	

Dete	Days Work		Receipt No.
Apr.5/88		(Tl) Michael Peplinski transfers 100% interest to)
		Ralph E. Allerston (M-13613) (170/88)	
Apr. 3/89		(OC5) Commissioner extends time until and	
		including December 15, 1989 for work and filing	
		thereof (178/89)	•
		this Abstract is a copy of the enthant; the Record Book end is not to be sour; sidered as assurance of the validity.	
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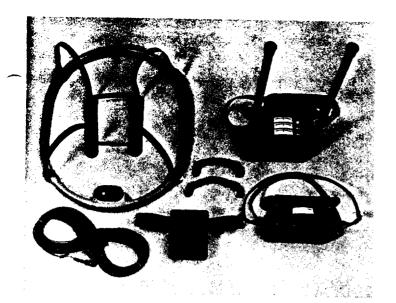
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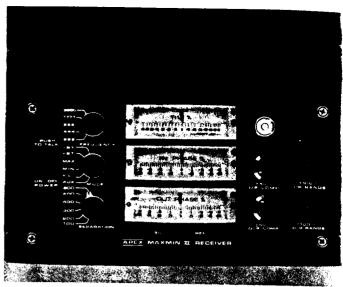
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Appendix B Instrument Specifications





SPECIFICATIONS:

Frequencies: 222,444,888,1777 and 3555 Hz.

Modes of Operation: MAX: Transmitter coil plane and receiver coil plane horizontal

(Max-coupled; Horizontal-loop mode). Used with refer cable.

MIN: Transmitter coil plane horizontal and receiver coil plane vertical (Min-coupled mode). Used with reference cable.

V.L.: Transmitter coil plane verticel and receiver coil plane horizontal (Vertical-loop mode). Used without reference cable, in parallel lines.

Coil Separations: 25,50,100,150,200 & 250m (MMI) or 100, 200, 300, 400,600 and

800 ft. (MMIF).

Coil separations in V.L.mode not re-

stricted to fixed values.

Parameters Read: - In-Phase and Quadrature components of the secondary field in

MAX and MIN modes.

- Tilt-angle of the total field in V.L.

mode.

Readouts: - Automatic, direct readout on

90mm (3.5") edgewise meters in MAX and MIN modes. No nulling or compensation necessary.

- Tilt angle and null in 90mm edgewise meters in V.L.mode.

Scale Ranges: In-Phase:

±20%,±100% by pushbutton switch. Quadrature: ±20%, ±100% by push-

button switch.

NOW ALSO ±4% **QUADRATURE**

Tilt: ±75% slope.

FULL SCALE

Null (V.L.): Sensitivity adjustable by separation switch.

Readability: In-Phase and Quadrature: 0.25 %

to 0.5%; Tilt: 1%.

Repeatability:

±0.25% to ±1% normally, dependir on conditions, frequencies and co

separation used.

Transmitter Output: -222Hz : 220 Atm²

444Hz : 200 Atm² 888 Hz: 120 Atm² - 1777 Hz : 60 Atm² - 3555 Hz : 30 Atm²

Receiver Batteries: 9V trans. radio type batteries (4

Life: approx. 35 hrs. continuous d ty (alkaline, 0.5 Ah), less in cold

weather.

Transmitter

Batteries:

Reference Cable :

12V 6Ah Gel-type rechargeable (Charger supplied

battery.

Light weight 2-conductor teflor

cable for minimum friction. Unshiek ed. All reference cables options

at extra cost. Please specify

Voice Link: Built-in intercom system for

voice communication between re ceiver and transmitter operators in MAX and MIN modes, via re

ference cable.

Indicator Lights: Built-in signal and reference warr

ing lights to indicate erroneous

readings .

Temperature Range: -40°C to +60°C (-40°F to +140°F)

Receiver Weight: 6kg (13 lbs.)

Transmitter Weight: 13kg (29 lbs.)

Shipping Weight: Typically 60kg (135 lbs.), depend

ing on quantities of reference cable and batteries included

Shipped in two field/shipping cases

Specifications subject to change without notification

PARAMETRICS BOX 818, R.R. NO.1; UXBRIDGE, ONTARIO, CANADA LOC 1KO

LIMITED

640-6102

Phone: (416) 852-5875 Cables: APEXPARA TORONTO

Telex: 06-966625 APEXPARA UXB

9.0 SPECIFICATIONS

9.1 Standard Console Specifications

Digital Display	32 character, 2 line LCD display
Keyboard Input	14 keys for entering all commands, coordinates, header and ancillary information.
Languages	English plus French is standard.
Standard Memory	16K RAM. More than sufficient for a day's data in most applications.
Clock	Real time clock with day, month, year, hour, minute and second. One second resolution, ±1 second stability over 12 hours. Needs keyboard initialization only after battery replacement.
Digital Data Output	RS-232C serial interface for digital printer, modem, microcomputer or cassette tape recorder. Data outputs in 7 bit ASCII, no parity format. Baud rate is keyboard selectable at 110, 300, 600 and 1200 baud. Carriage return delay is keyboard selectable in increments of one from 0 through 999. Handshaking is done through X-ON/X-OFF protocol.
	Allows IGS-2 to act as a master for other instrumenta-tion.
Analog Output	For a strip chart recorder. 0 to 999 mV full scale with keyboard selectable sensitivities of 10, 100 or 1000 units full scale.

Appendix C SAMPLE LOCATIONS AND ASSAY CERTIFICATES

SAMPLE LOCATIONS

Sample No	<u>Northing</u>	<u>Easting</u>	Gold (ppb)	Silver (ppm)	Copper (ppm)	Zinc (ppm)	Nickel (ppm)
14201	0+70 S	0+80W	nil	nil	105	44	65
14202	1+30 N	B.L.	10	nil	179	81	72
14203	2+10 N	0+75 E	nil	nil	148	64	77
14204	3+10 N	0+25 E	nil	nil	43	27	23
14205	2+05 N	0+55 W	ni1	nil	73	39	29
14206	1+52 N	0+70 E	nil	nil	131	51	75
14207	1+02 N	0+95 E	nil	nil	151	28	56
14208	1+08 N	0+40 E	nil	nil	116	25	38
14209	1+65 N	0+80 W	ni1	nil	114	39	5 0
14210	1+27 N	0+45 W	nil	nil	89	54	57
14211	0+70 N	0+20 E	nil	nil	67	28	30
14212	0+48 N	0+58 E	nil	nil	156	45	53
14213	0+10 N	0+25 E	nil	nil	155	36	77
14214	0+06 N	0+25 W	nil	0.4	774	70	134
14214	0+52 N	0+70 W	nil	nil	78	48	56
•	0+73 S	0+57 E	nil	nil	106	40	73
14216	1+35 S	0+30 E	nil	nil	49	34	41
14217	1+30 S	0+30 E	nil	nil	68	39	52
14218		0+23 E	nil	nil	85	41	45
14219	, , , , ,	0+02 W	nil	ni l	144	36	56
14220 14221	1+55 S 7+05 S	8+19 W	nil	nil	53	50	46

CHANNEL SAMPLE LOCATIONS

Sample Number	Length (m)	Trench Number	<u>Description</u>
16901	0.5	1	quartz stringer
16902	grab	1	quartz stringer
16903	grab	1	quartz stringer
16904	1.0	2	sulphide breccia zone
10304			(peripheral)
16905	1.0	2	sulphide breccia zone
10000			(zone)
16906	1.0	2	sulphide breccia zone
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			(zone)
16907	1.0	2	sulphide breccia zone
			(zone)
16908	1.0	2	sulphide breccia zone
.0000	• • •		(peripheral)
16910	1.0	2	sulphide breccia zone
.00.0			(zone)
16911	1.0	2	sulphide breccia zone
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			(zone)
16912	1.0	2	sulphide breccia zone
10012			(fault zone ?)
16913	1.0	3	sulphide breccia zone
,00.0	• • •		(fault zone ?)
16914	1.5	3	sulphide breccia zone
,0011			(peripheral + fault ?)
16915	1.5	3	sulphide breccia zone
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			(peripheral)
16916	1.0	3	sulphide breccia zone
			(fault zone ?)
16917	1.0	4	fault zone, minor sulph
16918	0.5	4	fault zone, diorite
			dykelet
16919	0.5	4	syenite dykelet
16920	0.5	4	syenite dykelet
16921	1.0	5	syenite dykelet
16922	1.0	5	syenite dykelet
16923	1.0	5	syenite dykelet
16924	0.5	6	syenite dykelet
16925	0.5	6	granodiorite dykelet
16926	0.5	6	syenite dykelet in
			fault zone
16927	0.5	6	syenite dykelet



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 75702 Date July 28, 1989

Received July 24, 1989 21 Grab Samples

Certificate No. 75702 Date July 28, 1989

Submitted by E. H. Van Hees Geological Services Ltd., Timmins, Ontario.

	Proj. /JBS					NICYT	
	- SAMPLE NO.	GOLD PPB	SILVER PPM	COPPER PPM	ZINC PPM	NICKEL PPMP	
	14201	Nil	Nil	105	44	65	
	14202	10	Nil	179	81	72	
	14203	Nil	Nil	148	64	77	
	14204	Nil	Ni 1	43	27	23	
:	14205	Nil	Nil	73	39	29	
	14206	Ni1	Nil	131	51	75	
* · ·	14207	Nil	Nil	151	. 28	56	
·	14208	Nil/Nil	Nil	116	25	38	
	14209	Nil	Nil	114	39	5 0	
	14210	Nil	Ni1	89	54	57	
•	14211	·Nil	Nil	67	28	30	
	14212	Nil	Nil	156	45	53	
•	14213	NII	Nil	155	3 6	77	
,	14214	Nil '	0.4	774	70	134	
	14215	Ni1	Ni 1	78	48	56	
	14216	Nil/Nil	Nil	106	40	73	
	14217	Ni1	Nil	49	34	41	
•	14218	Nil .	Nil	68	3 9	52	
	14219	Nil	Nil	8 5	. 41	45	
*	14220	Ni 1	Nil .	144	3 6	, 5 6	
	14221	Nil	Ni1	53	50	4 6	•

B. Lebel - Manager /ns



Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaving - Consulting - Representation

Certificate of Analysis

Certificate No. 76	Date Sept. 11, 1989				
Comt E 1000		28 Rock Samples			month come a come file of the magnificant community and the community of t
Neceived	n Hees Geologi	ral Corvices	ttd Timmins	. Ontario.	
Submitted by		cal Jervices	CCOTT VALUE (1)		Page 1 of 2.
File	#92-0766	70.			
SAMPLE NO.	GOLD Oz/ton	SILVER Oz/ton	COPPER %	ZINC %	NICKEL %
1690₩	0.010/0.012	Trace	0.02	0.01	0.01
16902	Ni 1	Ni 1	0.01	0.005	0.005
16903	Ni 1	Nil	0.005	0.01	0.01
16904	Nil	Nil	0.02	0.01	0.01
16905	Nil	Trace	0.02	0.01	0.01
16906	Ni 1	0.01	0.04	0.01	0.02
16907	Nil	Trace	0.04	0.01	0.02
16909	Ni 1	0.01	0.03	0.01	0.01
16910	0.002/0.002	Trace	0.03	0.01	0.01
16911	Nil	Trace	0.03	0.01	0.01
16912	Nil	Ni 1	0.03	0.02	0.01
16913	Ni 1	0.01	0.04	0.03	0.02
16914	Nil	0.03	0.07	0.02	0.02
16915	Ní l	0.02	0.03	0.01	0.01
16916	Ni 1	0.01	0.04	0.02	0.02
16917	Nil	0.01	0.02	0.02	0.01
16918	Nil	0.01	0.03	0.01	0.01
-	Nil	Nil	0.02	0.02	0.01
16919 16920	Nil	0.01	0.01	0.01	

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Con't....

G. Lebel - Manager /ns



Swastika Labora	tories	Certificate No	76093	Page	Page	
SAMPLE NO.	GOLD Oz/ton	STLVER Oz/ton	COPPER %	Z I NC	NICKEL %	
16921	0.002/Nil	Nil	0.005	0.01	0.01	
16922	Ni I	Nil	0.01	0.005	0.01	
16923	NI 1	NII	0.005	0.01	0.005	•
16924	NI I	Nil	0.01	0.005	0.01	
16925	Nil	Trace	0.01	0.005	0.005	
16926A	Nil	NI 1	0.005	0.01	0.01	
16926B	Nil	Nil	0.01	0.01	0.01	
16927	Ni 1	N11	0.01	0.01	0.01	

Per.

G. Lebel - Manager

PROPERTY MAPS and TRENCH SKETCHES

