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 Recorded	Assessment	Due Date	Area
P 1027468	Oct. 28, 1987	0 days	Oct. 17, 1988	40 acres
1027469	Oct. 28, 1987	0 days	Oct. 17, 1988	40 acres
1027470	Oct. 28, 1987	0 days	Oct. 17, 1988	40 acres
1027471	Oct. 28, 1987	0 days	Oct. 17, 1988	40 acres
1027472	Oct. 28, 1987	0 days	Oct. 17, 1988	40 acres
1027473	Oct. 28, 1987	0 days	Oct. 17, 1988	40 acres
1027474	Oct. 28, 1987	0 days	Oct. 17, 1988	40 acres
1027475	Oct. 28, 1987	0 days	Oct. 17, 1988	40 acres
1027476	Oct. 28, 1987	0 days	Oct. 17, 1988	40 acres
1027477	Oct. 28, 1987	0 days	Oct. 17, 1988	40 acres
1027478	Oct. 28, 1987	0 days	Oct. 17, 1988	40 acres
1027479	Oct. 28, 1987	0 days	Oct. 17, 1988	40 acres

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.

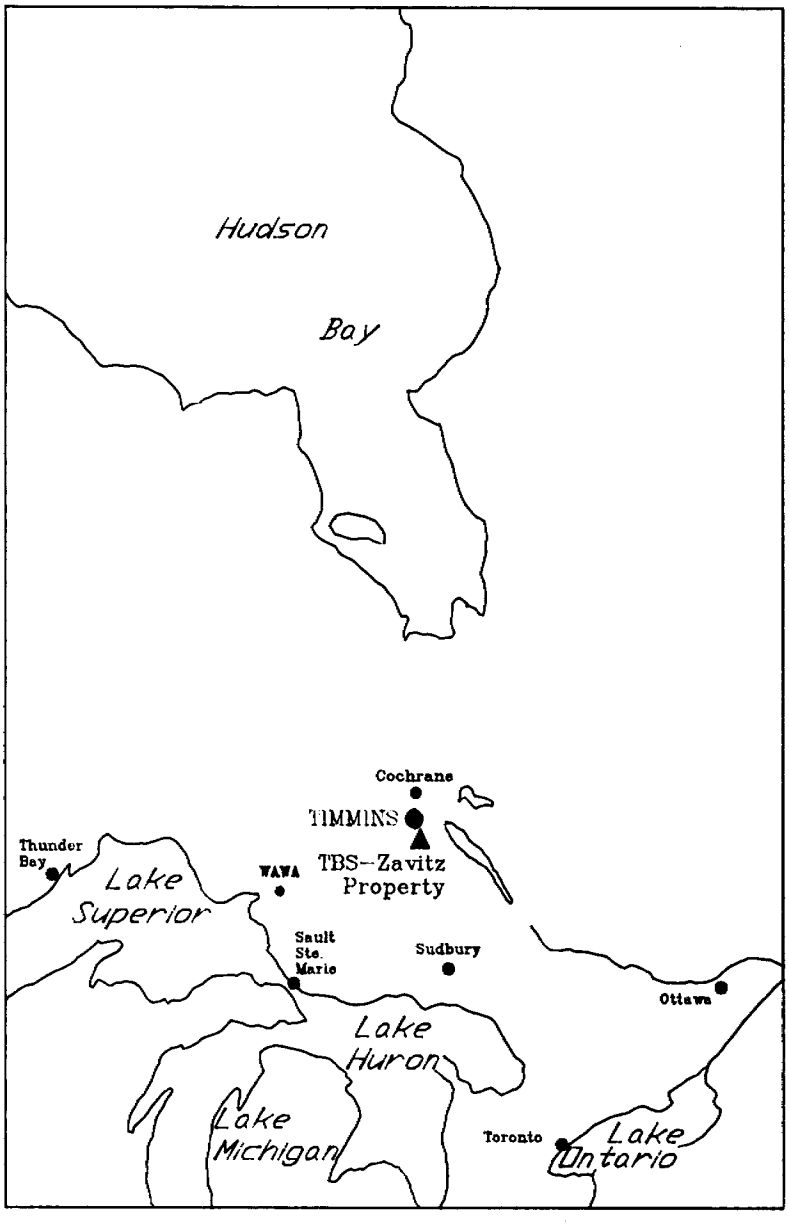


Figure 1. Regional Location Map

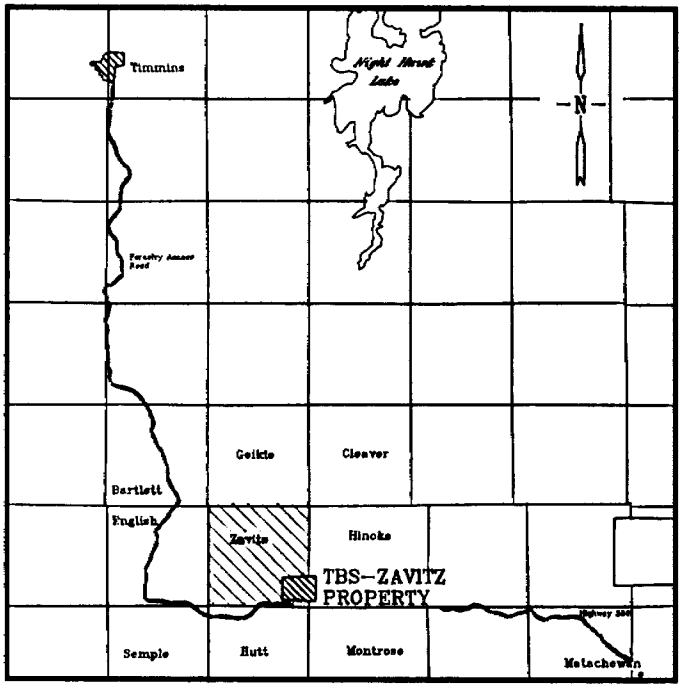
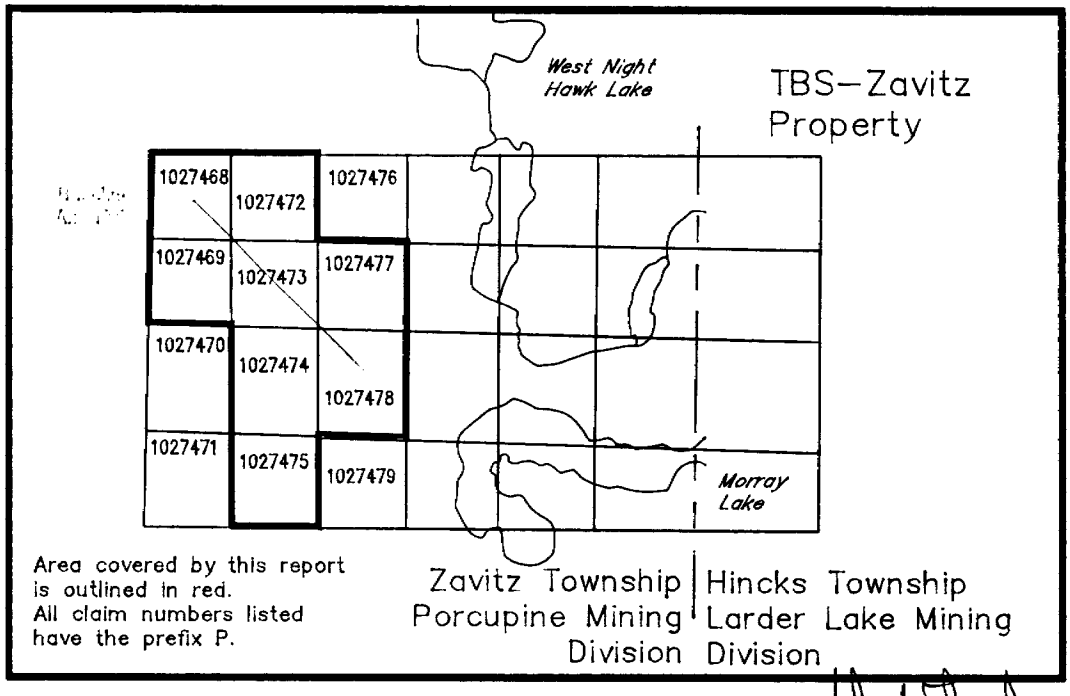


Figure 2. Property Location Map

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. Table of Formations (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
Olivene Diabase

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 alaskite; 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 Metavolcanics

Tuff and lapilli-tuff, volcanic breccia, massive and pillowed flows, variolitic flows, interlayered siltstone and greywacke, garnet-and-staurolite-bearing tuffs

Mafic Metavolcanics

Massive and pillowed flows, variolitic flows, tuff and lapilli-tuff, volcanic breccia, amphibolized and gneissic lavas, pyroxene spinifex-textured flows, tremolitic-(low Fe) bearing flows and pyroclastic rocks

Ultramafic Metavolcanics

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 north-east 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

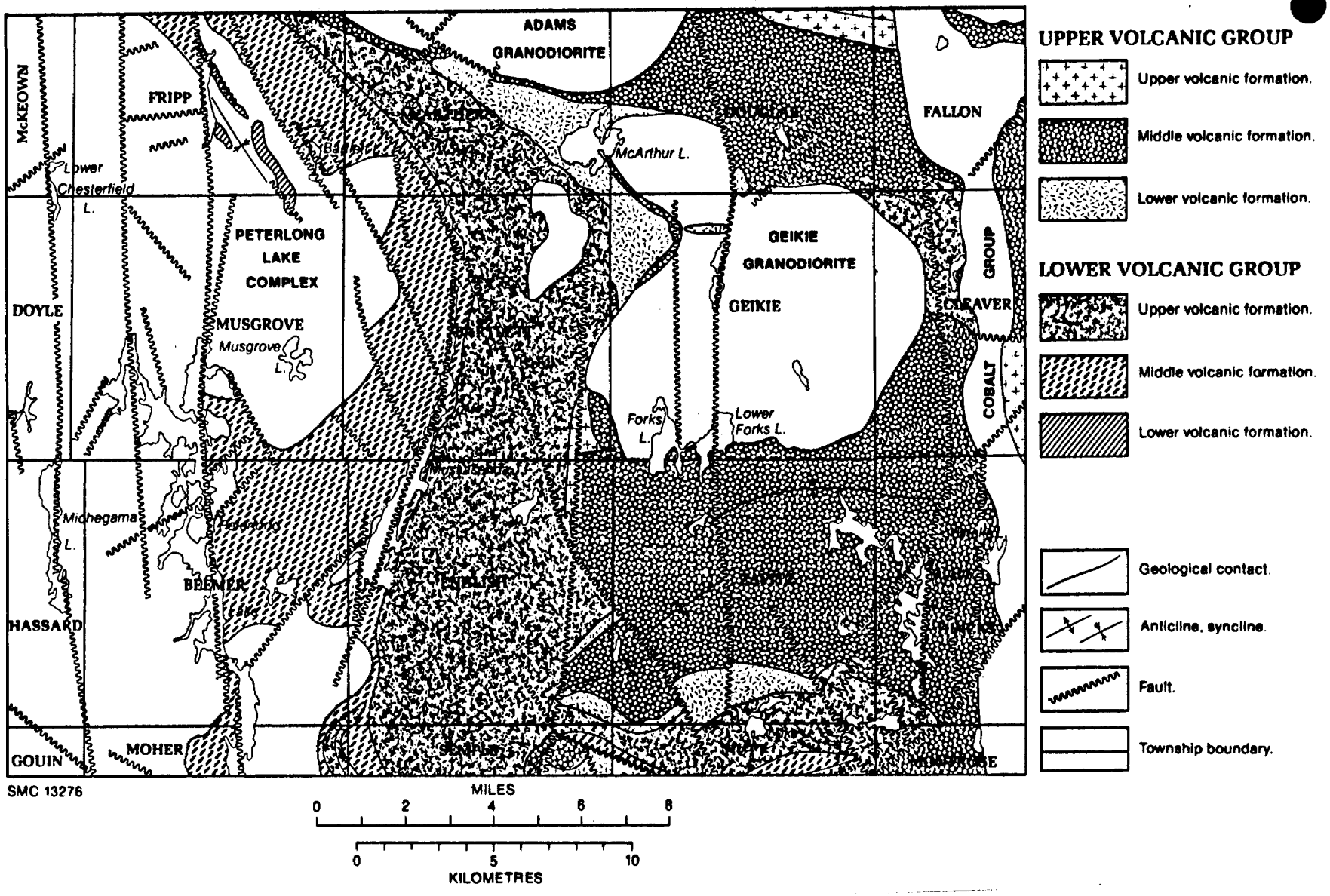


Figure 4. Regional Geology of the TBS-Zavitz Property
(After D.R. Pyke, 1978)

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 south-east. 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 135^0 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 90^0 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 in-phase 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, south-east 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 semi-massive (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 40^0. 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 31st day of Oct., 1989
Sault Ste. Marie, Ontario.

John R. Walmsley, B.Sc.
Geologist

REFERENCES

Bright, E.G.; *Geology of the Ferrier Lake - Conoeshed Lake Area, District of Sudbury, Ontario*, Geological Survey Report 231, 60 pp. (1984).

MacRae, W.; *Diamond Drill Summary Report, Allerston Zavitz Township Property, Larder Lake Mining Division*, Internal Report, Newmont Exploration of Canada Limited, February, 1981.

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Pyke, D.R.; *Geology of the Peterlong Lake Area, Districts of Timiskaming and Sudbury*, Ontario Geological Survey Report Number 171, Map Number 2345, 1978.

Tremblay, J.H.; *Report on the Allerston Zavitz Property for 635540 Ontario Inc.*, Internal Report, MPH Consulting Limited, January, 1986.

Walmsley, J.R.; *Report on the Total Field Magnetic Survey and VLF-EM Survey Conducted on the TBS-Zavitz Property, Zavitz Township, Porcupine Mining District*, Internal Report, E.H. van Hees Geological Services Inc., October, 1989.

Appendix A

Claim Abstracts

Ministry of Northern Development and Mines

Ontario

Mining Claim

Entered KB | Checked

Mining Act

Claim No. P-1027468

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address	Date and Time of Staking	P.T.
289 B Pine South, Timmins, Ont.	Oct. 17/87 AT 8:00 am	X

Office Use Only — Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim
ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

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. (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

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Entered 88 Checked RB

Mining Act

Claim No. P-1027469

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address	Date and Time of Staking	P.T.
289 B Pine South, Timmins, Ont.	Oct. 17/87 AT 10:15 am	X

Office Use Only	Days Recorded	Balance	Description of Claim
Assessment Work Credits Assigned to other Claims			-ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

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. (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

S White

Mining Recorder
PORCUPINE MINING DIVISION

Ontario Ministry of Northern Development and Mines

Mining Claim

Mining Act

Entered | Checked

Claim No. P-1027470

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address	Date and Time of Staking	P.T.
289 B Pine South, Timmins, Ont.	Oct. 17 /87 AT 12:20 pm	X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim
ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

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. (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

Mining Recorder

PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Entered | Checked

Mining Act

Claim No. P-1027471

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address	Date and Time of Staking	P.T.
289 B Pine South, Timmins, Ont.	Oct. 17/87 AT 3:00 pm	X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim

ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

INCLUDING LAND 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. (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

S White

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Entered | Checked

Claim No. P-1027472

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address	Date and Time of Staking	P.T.
289 B Pine South, Timmins, Ont.	Oct. 18 /87 AT 7:05 am	X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim
ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers
Sand, gravel and peat reserved.

EXCLUDING ROAD

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. (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

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Entered | Checked

Mining Act

Claim No. P-1027473

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address	Date and Time of Staking	P.T.
289 B Pine South, Timmins, Ont.	· Oct. 18/87 · AT 9:10 am	X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim

ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

, EXCLUDING ROAD

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. (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

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Entered | Checked

Mining Act

Claim No. P-1027474

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address: 289 B Pine South, Timmins, Ont.

Date and Time of Staking: Oct. 18 /87 - AT 11:15 am P.T. X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim: ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

EXCLUDING ROAD

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. (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

S. White

Mining Recorder
PORCUPINE MINING DIVISION

Ontario

Ministry of Northern Development and Mines

Mining Claim

Entered | Checked

Mining Act

Claim No. P-1027475

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address	Date and Time of Staking	P.T.
289 B Pine South, Timmins, Ont.	Oct. 18 /87 AT 1:30 pm	X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim
. ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

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. (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

Mining Recorder
PORCUPINE MINING DIVISION

Ontario

Ministry of Northern Development and Mines

Mining Claim

Entered 7/5 | Checked BB

Mining Act

Claim No. P-1027476

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address: 289 B Pine South, Timmins, Ont.

Date and Time of Staking: Oct. 19/87 - AT 7:15 am — P.T.: X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim: ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

EXCLUDING ROAD

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. (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

S White

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Entered 76 Checked BB

Mining Act

Claim No. P-1027477

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address	Date and Time of Staking	P.T.
289 B Pine South, Timmins, Ont.	Oct. 19 /87 AT 9:20 am	X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim

-ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

-EXCLUDING ROAD

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. (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

S. White

Mining Recorder
PORCUPINE MINING DIVISION

Ontario Ministry of Northern Development and Mines

Mining Claim

Entered | Checked

Mining Act

Claim No. P-1027478

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address	Date and Time of Staking	P.T.
289 B Pine South, Timmins, Ont.	Oct. 19 /87 AT 11:30 am	X

Office Use Only	Days Recorded	Balance	Description of Claim
Assessment Work Credits Assigned to other Claims			ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

EXCLUDING ROAD

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. (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

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Entered | Checked

Mining Act

Claim No. P-1027479

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address	Date and Time of Staking	P.T.
289 B Pine South, Timmins, Ont.	Oct. 19/87 AT 2:00 pm	X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim

ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

-EXCLUDING ROAD

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. (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

S. White

Mining Recorder
PORCUPINE MINING DIVISION

Ontario

Ministry of Northern Development and Mines

Mining Claim

Entered 26 Checked BB

Mining Act

Claim No. P-1027480

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address: 289 B Pine South, Timmins, Ont.

Date and Time of Staking: Oct. 20 /87 AT 9:00 am P.T. X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim: ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

- INCLUDING LAND 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. (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

S White

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Entered | Checked

Mining Act

Claim No. P-1027481

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address	Date and Time of Staking	P.T.
289 B Pine South, Timmins, Ont.	Oct. 20/87 AT 10:15 am	X

Office Use Only — Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim

-ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

INCLUDING LAND 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. (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

Mining Recorder
PORCUPINE MINING DIVISION

Ontario

Ministry of Northern Development and Mines

Mining Claim

Entered | Checked

Mining Act

Claim No. P-1027482

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address: 289 B Pine South, Timmins, Ont.

Date and Time of Staking: Oct. 20 /87 AT 1:00 pm — P.T. X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim: ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

INCLUDING LAND 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. (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

Mining Recorder
PORCUPINE MINING DIVISION

Ontario

Ministry of Northern Development and Mines

Mining Claim

Mining Act

Claim No. P-1087850

Recorded in the Name of	Licence No.	Date Recorded
RICHARD BRENT MCALLISTER	M-23728	October 17, 1988

Address	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 Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim

ZAVITZ TOWNSHIP M-1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

File No. R8806.50263

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 assurance of the validity of the claim.

MAY 18 1989

S White

Mining Recorder
PORCUPINE MINING DIVISION

Ontario

Ministry of Northern Development and Mines

Mining Claim

Mining Act

Claim No. P-1087851

Recorded in the Name of	Licence No.	Date Recorded
RICHARD BRENT MCALLISTER	M-23728	October 17, 1988

Address	Date and Time of Staking	P.T.
124 Tamarack Street, Timmins, Ontario	Oct. 6/88 AT: 13:00	x

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim

ZAVITZ TOWNSHIP M-1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers
Sand, gravel and peat reserved.

INCLUDNG LAND UNDER WATER

File No. R8806.50263

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 assurance of the validity of the claim.

MAY 18 1989

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Claim No. P-1087852

Recorded in the Name of	Licence No.	Date Recorded
RICHARD BRENT MCALLISTER	M-23728	October 17, 1988

Address	Date and Time of Staking	P.T.
124 Tamarack Street, Timmins, Ontario	Oct. 6/88 AT: 15:00	x

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim: ZAVITZ TOWNSHIP M-1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

File No. R8806.50263

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 assurance of the validity of the claim.

MAY 18 1989

S White

Mining Recorder

PORCUPINE MINING DIVISION

Ontario

Ministry of Northern Development and Mines

Mining Claim

Mining Act

Claim No. P-1087587

Recorded in the Name of	Licence No.	Date Recorded
RICHARD BRENT MCALLISTER	M-23728	October 17, 1988

Address: 124 Tamarack Street, Timmins, Ontario

Date and Time of Staking: Oct. 5/88 AT: 15:00 P.T. x

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim: ZAVITZ TOWNSHIP M-1189

Reservations - 400 foot Surface Rights reservation around all lakes and rive
Sand, gravel and peat reserved.

File No. R8806.50263

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 assurance of the validity of the claim.

MAY 18 1989.

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Claim No. P-1087588

Recorded in the Name of	Licence No.	Date Recorded
RICHARD BRENT MCALLISTER	M-23728	October 17, 1988

Address	Date and Time of Staking	P.T.
124 Tamarack Street, Timmins, Ontario	Oct. 5/88 AT: 13:00	x

Office Use Only		
Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim

ZAVITZ TOWNSHIP M-1189

Reservations - 400 foot Surface Rights reservation around all lakes and rive
Sand, gravel and peat reserved.

INCLUDING LAND UNDER WATER

File No. R8806.50263

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 assurance of the validity of the claim.

MAY 18 1989

Mining Recorder
PORCUPINE MINING DIVISION

Ontario

Ministry of Northern Development and Mines

Mining Claim

Mining Act

Claim No. P-1087589

Recorded in the Name of: RICHARD BRENT MCALLISTER

Licence No.: M-23728

Date Recorded: October 17, 1988

Address: 124 Tamarack Street, Timmins, Ontario

Date and Time of Staking: Oct. 5/88 AT: 11:00 a.m. P.T. x

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim: ZAVITZ TOWNSHIP M-1189

Reservations - 400 foot Surface Rights reservation around all lakes and river. Sand, gravel and peat reserved.

File No. R8806.50263

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 assurance of the validity of the claim.

MAY 18 1989

Mining Recorder

PORCUPINE MINING DIVISION

Ontario

Ministry of Northern Development and Mines

Mining Claim

Mining Act

Claim No.
P-1087590

Recorded in the Name of	Licence No.	Date Recorded
RICHARD BRENT MCALLISTER	M-23728	October 17, 1988

Address	Date and Time of Staking	P.T.
124 Tamarack Street, Timmins, Ontario	Oct. 5/88 AT: 9:00 a.m.	x

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim
ZAVITZ TOWNSHIP M-1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers
Sand, gravel and peat reserved.

File No.
R8806.50263

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 assurance of the validity of the claim.

MAY 18 1989

S White

Mining Recorder
PORCUPINE Mining Division

Ontario

Ministry of Northern Development and Mines

Mining Claim

Mining Act

Claim No. P-1087591

Recorded in the Name of	Licence No.	Date Recorded
RICHARD BRENT MCALLISTER	M-23728	October 17, 1988

Address	Date and Time of Staking	P.T.
124 Tamarack Street, Timmins, Ontario	Oct. 6/88 AT: 9:00 a.m.	x

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim

ZAVITZ TOWNSHIP M-1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers Sand, gravel and peat reserved.

File No. R8806.50263

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 assurance of the validity of the claim.

MAY 18 1989

Mining Recorder
PORCUPINE MINING DIVISION

Ontario

Ministry of Northern Development and Mines

Mining Claim

Mining Act

Claim No. L 1032812

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Michael W. Peplinski	M 21221	5763	March 25, 1988

Address: P.O. Box 2265, TIMMINS, Ontario P4N 7X8

Date and Time of Staking: March 17, 1988 at 2:40 p.m. P.T. X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim: HINCKS TOWNSHIP (M-223) Former 876609

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

Other reservations under The Mining Act may apply.

File No. L 1032812

Date	Days Work		Receipt No.
Apr.5/88		(T1) 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. A. Wiseman
Mining Recorder
LARDER LAKE MINING DIVISION

840 (86/4)

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Claim No. L 1032813

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Michael W. Peplinski	M 21221	5763	March 25, 1988

Address: P.O. Box 2265, TIMMINS, Ontario P4N 7X8

Date and Time of Staking: March 17, 1988 at 12:00 noon — P.T.: X

Office Use Only — Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim: HINCKS TOWNSHIP (M-223)
Former 876610

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

File No. L 1032812

Date	Days Work		Receipt No.
Apr.5/88		(T1) 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 - 5 1989

M. A. Weinmeier
Mining Recorder
LARDER LAKE MINING DIVISION

840 (86/4)

Ontario Ministry of Northern Development and Mines

Mining Claim

Mining Act

Claim No. L 1032814

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Michael W. Peplinski	M 21221	5763	March 25, 1988

Address: P.O. Box 2265, TIMMINS, Ontario P4N 7X8

Date and Time of Staking: March 17, 1988 at 9:35 a.m. P.Y.: X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim: HINCKS TOWNSHIP (M-223) Former 876611

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

Other reservations under The Mining Act may apply.

File No. L 1032812

Date	Days Work		Receipt No.
Apr.5/88		(T1) 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. A. Weirmeir
Mining Recorder
LARDER LAKE MINING DIVISION

840 (86/4)

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Claim No. L 1032815

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Michael W. Peplinski	M 21221	5763	March 25, 1988

Address	Date and Time of Staking	P.T.
P.O. Box 2265 TIMMINS, Ontario P4N 7X8	March 17, 1988 at 7:15 a.m.	X

Office Use Only Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim
HINCKS TOWNSHIP (M-223)
Former 876612

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

Other reservations under The Mining Act may apply.

File No. L 1032812

Date	Days Work		Receipt No.
Apr.5/88		(T1) 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

M. A. Weismeier
Mining Recorder
LARDER LAKE MINING DIVISION

840 (86/4)

Ontario

Ministry of Northern Development and Mines

Mining Claim

Mining Act

Claim No. L 1032816

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Michael W. Peplinski	M 21221	5763	March 25, 1988

Address: P.O. Box 2265, TIMMINS, Ontario P4N 7X8

Date and Time of Staking: March 16, 1988 at 2:45 p.m. P.T. X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim: HINCKS TOWNSHIP (M-223) Former 876613

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

Other reservations under The Mining Act may apply.

File No. L 1032812

Date	Days Work		Receipt No.
Apr.5/88		(T1) 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. A. Weirmeir
Mining Recorder
LARDER LAKE MINING DIVISION

840 (86/4)

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Claim No.
L 1032817

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Michael W. Peplinski	M 21221	5763	March 25, 1988

Address	Date and Time of Staking	P.T.
P.O. Box 2265 TIMMINS, Ontario P4N 7X8	March 16, 1988 at 12:30 p.m.	X

Office Use Only Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim

HINCKS TOWNSHIP (M-223)
Former 876614

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

File No.
L 1032812

Date	Days Work		Receipt No.
Apr.5/88		(T1) 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. A. Weinmeier
Mining Recorder
LARDER LAKE MINING DIVISION

Ontario

Ministry of Northern Development and Mines

Mining Claim

Mining Act

Claim No. L 1032818

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Michael W. Peplinski	M 21221	5763	March 25, 1988

Address: P.O. Box 2265, TIMMINS, Ontario P4N 7X8

Date and Time of Staking: March 16, 1988 at 10:15 a.m. P.T.: X

Office Use Only — Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim: HINCKS TOWNSHIP (M-223) Former 528782

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

File No. L 1032812

Date	Days Work		Receipt No.
Apr.5/88		(T1) 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. A. Weirmeir
Mining Recorder
LARDER LAKE MINING DIVISION

Ontario Ministry of Northern Development and Mines

Mining Claim

Mining Act

Claim No. L 1032819

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Michael W. Peplinski	M 21221	5763	March 25, 1988

Address: P.O. Box 2265, TIMMINS, Ontario P4N 7X8

Date and Time of Staking: March 16, 1988 at 8:00 a.m. P.T.: X

Office Use Only — Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim: HINCKS TOWNSHIP (M-223) Former 876615

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

Other reservations under The Mining Act may apply.

File No. L 1032812

Date	Days Work		Receipt No.
Apr.5/88		(T1) 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 entry in the Record Book and is not to be considered as assurance of the validity of the claim

JUN - 9 1989

M. A. Weirmeir
Mining Recorder
LABBER LAKE MINING DIVISION

840 (86/4)

AUDIT NUMBER
474286

Entered PD Checked BP

Ontario Ministry of Natural Resources

Mining Claim

The Mining Act

CLAIM NO.
T. 848522

RECORDED IN THE NAME OF	LICENCE NO.	RECEIPT NO.	DATE RECORDED
Nolan Boa	K 8687	1035	September 10/85

ADDRESS
33 Pine St S, Apt. D, Box 581
Timmins Ont.

DATE AND TIME OF STAKING
August 11/85
at 2:00 pm

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY	DAYS RECORDED	BALANCE
R. Allerston M13613	1248	2752
R. Allerston	56	2696
	1304	

DESCRIPTION OF CLAIM
ZAVITZ TWP. M 1187
including land under water

RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO.
848522

DATE	DAYS WORK		RECEIPT NO.
Dec. 16/85	T1	Transfer all interest to Ralph E. Allerston M13613 (12/85)	2404
Sept. 2/86	160	PDAILL Diamond Drilling (performed on 848522) (352/86)	
Sept. 2/86	30	X77-19 Section 77-19 (assays) Approved SEP 23 1986 (354/86)	

This Abstract is a copy of the entries in the Record Book and is to be considered as assurance of the validity of the claim.

JUN 21 1989

Mining Recorder
PORCUPINE MINING DIVISION

AUDIT NUMBER 474287 | Entered QN | Checked GDS

Ontario Ministry of Natural Resources — The Mining Act

CLAIM NO. T 852293

RECORDED IN THE NAME OF: Nolan Roe | LICENCE NO.: K 8687 | RECEIPT NO.: 1035 | DATE RECORDED: September 10/85

ADDRESS: 33 Pine St S, Apt. D, Box 581 Timmins Ont.

DATE AND TIME OF STAKING: August 11/85 at 10:00 am

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY	DAYS RECORDED	BALANCE

DESCRIPTION OF CLAIM: ZAVITZ TWP; including land under water

RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO. 848522

DATE	DAYS WORK		RECEIPT NO.
Dec. 16/85	T I	Transfer all interest to Ralph E. Allerston M13613 (12/85)	2404
Sept. 2/86	160	PDRILL Diamond Drilling (performed on 848522) (352/86)	
Sept. 2/86	7	X77-19 Core Specimens (performed on 848522) (353/86)	
Sept. 2/86	23	X77-19 Section 77-19 (assays) Approved SEP 23 1986 (354/86)	

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 1987

G. White

MINING RECORDER
PORCUPINE MINING DIVISION

MINING NUMBER
474288 | Entered AN | Checked GS

Ontario Natural Resources — The Mining Act

CLAIM NO: L 853284

RECORDED IN THE NAME OF: Nolan Boa

LICENCE NO.: M 8687 | RECEIPT NO.: 1035 | DATE RECORDED: September 10|85

ADDRESS: 33 Pine St S, Apt. D, Box 581
Timmins Ont.

DATE AND TIME OF STAKING: August 11|85 at 12:00 noon

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY	DATE RECORDED	BALANCE

DESCRIPTION OF CLAIM:
ZAVITZ TWP:
including land under water

RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS. SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO.: 848522

DATE	DAYS WORK		RECEIPT NO.
Dec. 16/85		Transfer all interest to Ralph E Allerston M13613 (12/85)	2404
Sept. 2/86	160	Diamond Drilling (performed on 848522) (352/86)	
Sept.2/86	7	Core Specimens (performed on 848522) (353/86)	
Sept. 2/86	23	Section 77-19 (assays) Approved SEP 23 1986 (354/86)	

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

AUDIT NUMBER
474289 Entered AW Checked CB

Ontario Natural Resources — The Mining Act

CLAIM NO
L 853295

RECORDED IN THE NAME OF	LICENCE NO.	RECEIPT NO.	DATE RECORDED
Nolan Boa	H 8637	1035	September 10|85

ADDRESS
33 Pine St S, Apt. D, Box 581
Timmins Ont.

DATE AND TIME OF STAKING
August 11\|85
at 3:00 pm

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY	DAYS RECORDED	BALANCE

DESCRIPTION OF CLAIM
ZAVITZ TWP;
including land under water

RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS. SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO
848522

DATE	DAYS WORK		RECEIPT NO.
Dec. 16/85		Transfer all interest to Ralph E. Allerston M13613 (12/85)	2404
Sept. 2/86	160	Diamond Drilling (performed on 848522) (352/86)	
Sept.2/86	7	Core Specimens (performed on 848522) (353/86)	
Sept. 2/86	23	Section 77-19 (assays) Approved SEP 23 1986 (354/86)	

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

NUMBER
474290 | Entered AM | Checked

Ontario Natural Resources — The Mining Act

CLAIM NO L 853286

RECORDED IN THE NAME OF: Nolan Bon

LICENCE NO.: M 8687 | RECEIPT NO.: 1035 | DATE RECORDED: September 10/85

ADDRESS: 33 Pine St S, Apt. D, Box 581 Timmins Ont.

DATE AND TIME OF STAKING: August 12/85 at 9:00 a.m.

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY	DAYS RECORDED	BALANCE

DESCRIPTION OF CLAIM: ZAVITZ TWP.; including land under water

RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS. SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO. 848522

DATE	DAYS WORK		RECEIPT NO.
Dec. 16/85		Transfer all interest to Ralph E. Allerston M13613 (12/85)	2404
Sept. 2/86	160	Diamond Drilling (performed on 848522) (352/86)	
Sept.2/86	7	Core Specimens (performed on 848522) (353/86)	
Sept. 2/86	23	Section 77-19 (assays) Approved SEP 23 1986 (354/86)	

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 RECORDER'S NUMBER
474291 Entered AN Checked

Ontario Ministry of Natural Resources — The Mining Act

CLAIM NO. L 853267

RECORDED IN THE NAME OF: Nolan Boa
LICENCE NO.: K 8697
RECEIPT NO.: 1035
DATE RECORDED: September 10/85

ADDRESS: 33 Pine St S, Apt. D, Box 581
Timmins Ont.

DATE AND TIME OF STAKING: August 12/85 at 11:00 am

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY	DAYS RECORDED	BALANCE

DESCRIPTION OF CLAIM:
ZAVITZ TWP;
including land under water

RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS. SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO. 848522

DATE	DAYS WORK		RECEIPT NO.
Dec. 16/85		Transfer all interest to Ralph E. Allerston M13613 (12/85)	2404
Sept. 2/86	160	Diamond Drilling (performed on 848522) (352/86)	
Sept.2/86	7	Core Specimens (performed on 848522) (353/86)	
Sept. 2/86	33	Section 77-19 (assays) Approved SEP 23 1986 (354/86)	

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

AUDIT NUMBER
474292 Entered AN Checked KL

Ontario Natural Resources — The Mining Act

CLAIM NO 1 [illegible]

RECORDED IN THE NAME OF: Nolan Bon

LICENCE NO.: [illegible] 8687

RECEIPT NO.: 1035

DATE RECORDED: September 10/85

ADDRESS: 33 Pine St S, Apt. D, Box 581 Timmins Ont.

DATE AND TIME OF STAKING: August 12/85 at 1:00 p.m.

P.

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY | DAYS RECORDED | BALANCE

DESCRIPTION OF CLAIM

ZAVITZ TWP
including land under water

RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS. SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO. 848522

DATE	DAYS WORK		RECEIPT NO.
Dec. 16/85		Transfer all interest to Ralph E. Allerston M13613 (12/85)	2404
Sept. 2/86	144	Diamond Drilling (performed on 848522) (352/86)	
Sept.2/86	7	Core Specimens (performed on 848522) (353/86)	
Sept. 2/86	25 ✓	Section 77-19 (assays) Approved SEP 23 1986 (354/86)	

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

Entered | Checked

Ontario Natural Resources — The Mining Act

CLAIM NO L 853200

ROLL NUMBER 474293

RECORDED IN THE NAME OF: Nolan Boa | LICENCE NO.: M 8687 | RECEIPT NO.: 1035 | DATE RECORDED: September 10|85

ADDRESS: 33 Pine St S, Apt. D, Box 581, Timmins Ont.

DATE AND TIME OF STAKING: August 12|85 at 3:00 pm

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY	DAYS RECORDED	BALANCE

DESCRIPTION OF CLAIM: ZAVITZ TWP: M1357 including land under water

RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO. 848522

DATE	DAYS WORK		RECEIPT NO.
Dec. 16/85	T1 M90	Transfer all interest to Ralph E. Allerston M13613 (12/85)	2404
Sept. 2/86	144	PDRILL Diamond Drilling (performed on 848522) (352/86)	
Sept.2/86	7	X77-19 Core Specimens (performed on 848522) (353/86)	

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

D. White

~~Mining Recorder~~
PORCUPINE MINING DIVISION

AUDIT NUMBER
474294 Entered AN Checked

Ontario Ministry of Natural Resources — Mining Claim

The Mining Act

CLAIM NO.
L 853300

RECORDED IN THE NAME OF	LICENCE NO.	RECEIPT NO.	DATE RECORDED
Nolan Roa	[illegible]9687	1035	September 10|85

ADDRESS
33 Pine St S, Apt. D, Box 581
Timmins Ont.

DATE AND TIME OF STAKING
August 12\|85
at 5:00 p.m.

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY	DAYS RECORDED	BALANCE

DESCRIPTION OF CLAIM
ZAVITZ TWP
including land under water

RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO.
848522

DATE	DAYS WORK		RECEIPT NO.
Dec. 16/85		Transfer all interest to Ralph E. Allerston M13613 (12/85)	2404
Sept. 2/86	160	Diamond Drilling (performed on 848522) (352/86)	
Sept.2/86	7	Core Specimens (performed on 848522) (353/86)	
Sept. 2/86	33	Section 77-19 (assays) Approved SEP 23 1986 (354/86)	

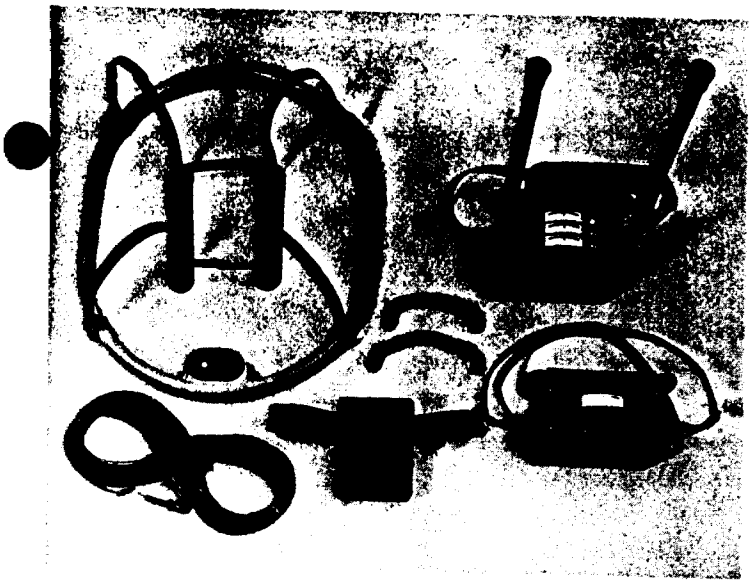
This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.

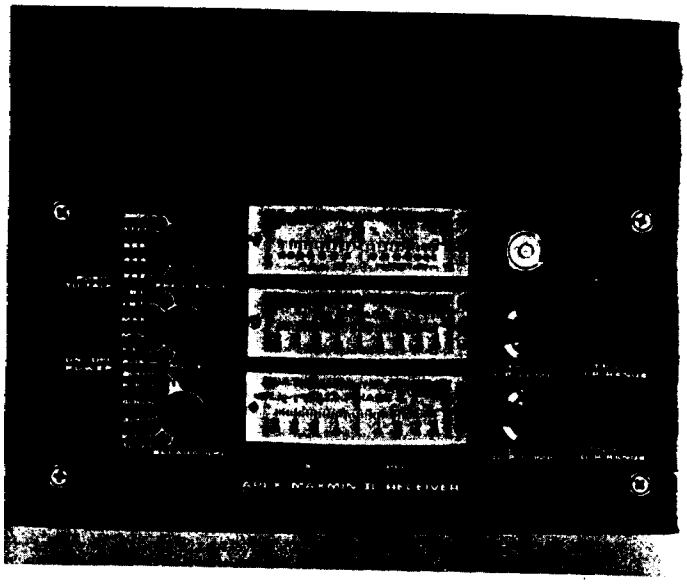
MAY 28 1987

Mining Recorder
PORCUPINE MINING DIVISION

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 reference cable.
- MIN: Transmitter 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 (MMII) or 100, 200, 300, 400, 600 and 800 ft. (MMIIF).
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 nulling or compensation necessary.
- Tilt angle and null in 90 mm edgewise meters in V.L. mode.

Scale Ranges:
In-Phase: ±20%, ±100% by push-button switch.
Quadrature: ±20%, ±100% by push-button switch.
Tilt: ±75% slope.
Null (V.L.): Sensitivity adjustable by separation switch.

NOW ALSO ±4% QUADRATURE FULL SCALE.

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

Repeatability: ±0.25% to ±1% normally, dependir on conditions, frequencies and cc separation used.

Transmitter Output:
- 222 Hz : 220 Atm²
- 444 Hz : 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 col weather.

Transmitter Batteries: 12V 8 Ah Gel-type rechargeabl battery. (Charger supplied

Reference Cable: Light weight 2-conductor teflor cable for minimum friction. Unshield ed. All reference cables optione 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 warn 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 (28 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 PARAMETRICS LIMITED
BOX 818, R.R. NO.1; UXBRIDGE, ONTARIO, CANADA L0C 1K0

Phone: (416) 640-6102 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 instrumentation.
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	Easting	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	nil	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 S	0+30 E	nil	nil	49	34	41
14218	1+30 S	0+29 E	nil	nil	68	39	52
14219	1+10 S	0+08 W	nil	nil	85	41	45
14220	1+55 S	0+02 W	nil	nil	144	36	56
14221	7+05 S	8+19 W	nil	nil	53	50	46

CHANNEL SAMPLE LOCATIONS

Sample Number	Length (m)	Trench 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 fault zone
16927	0.5	6	syenite dykelet

Established 1928

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 Hees Geological Services Ltd., Timmins, Ontario.

Proj. #JBS

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	Nil	43	27	23
14205	Nil	Nil	73	39	29
14206	Nil	Nil	131	51	75
14207	Nil	Nil	151	28	56
14208	Nil/Nil	Nil	116	25	38
14209	Nil	Nil	114	39	50
14210	Nil	Nil	89	54	57
14211	Nil	Nil	67	28	30
14212	Nil	Nil	156	45	53
14213	Nil	Nil	155	36	77
14214	Nil	0.4	774	70	134
14215	Nil	Nil	78	48	56
14216	Nil/Nil	Nil	106	40	73
14217	Nil	Nil	49	34	41
14218	Nil	Nil	68	39	52
14219	Nil	Nil	85	41	45
14220	Nil	Nil	144	36	56
14221	Nil	Nil	53	50	46

Per G. Lebel

G. Lebel - Manager /ns

P.O. Box 10, Swastika, Ontario P0K 1T0

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76093 Date Sept. 11, 1989

Received Sept. 5, 1989 28 Rock Samples

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

File #92-0766

SAMPLE NO.	GOLD Oz/ton	SILVER Oz/ton	COPPER %	ZINC %	NICKEL %
16901	0.010/0.012	Trace	0.02	0.01	0.01
16902	Nil	Nil	0.01	0.005	0.005
16903	Nil	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	Nil	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	Nil	Nil	0.03	0.02	0.01
16913	Nil	0.01	0.04	0.03	0.02
16914	Nil	0.03	0.07	0.02	0.02
16915	Nil	0.02	0.03	0.01	0.01
16916	Nil	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
16919	Nil	Nil	0.02	0.02	0.01
16920	Nil	0.01	0.01	0.01	

Con't.....

Per G. Lebel - Manager /ns

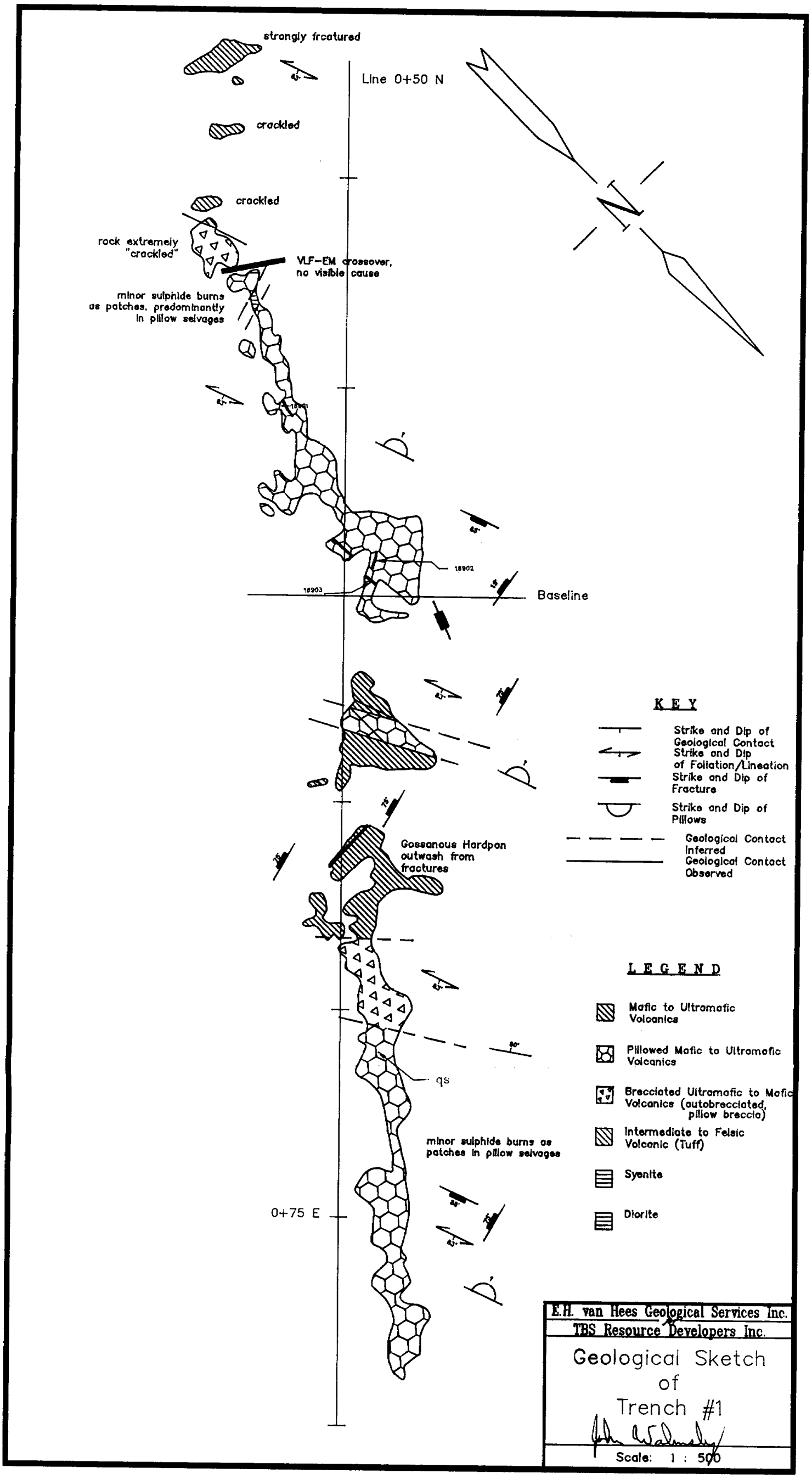
P.O. Box 10, Swastika, Ontario P0K 1T0

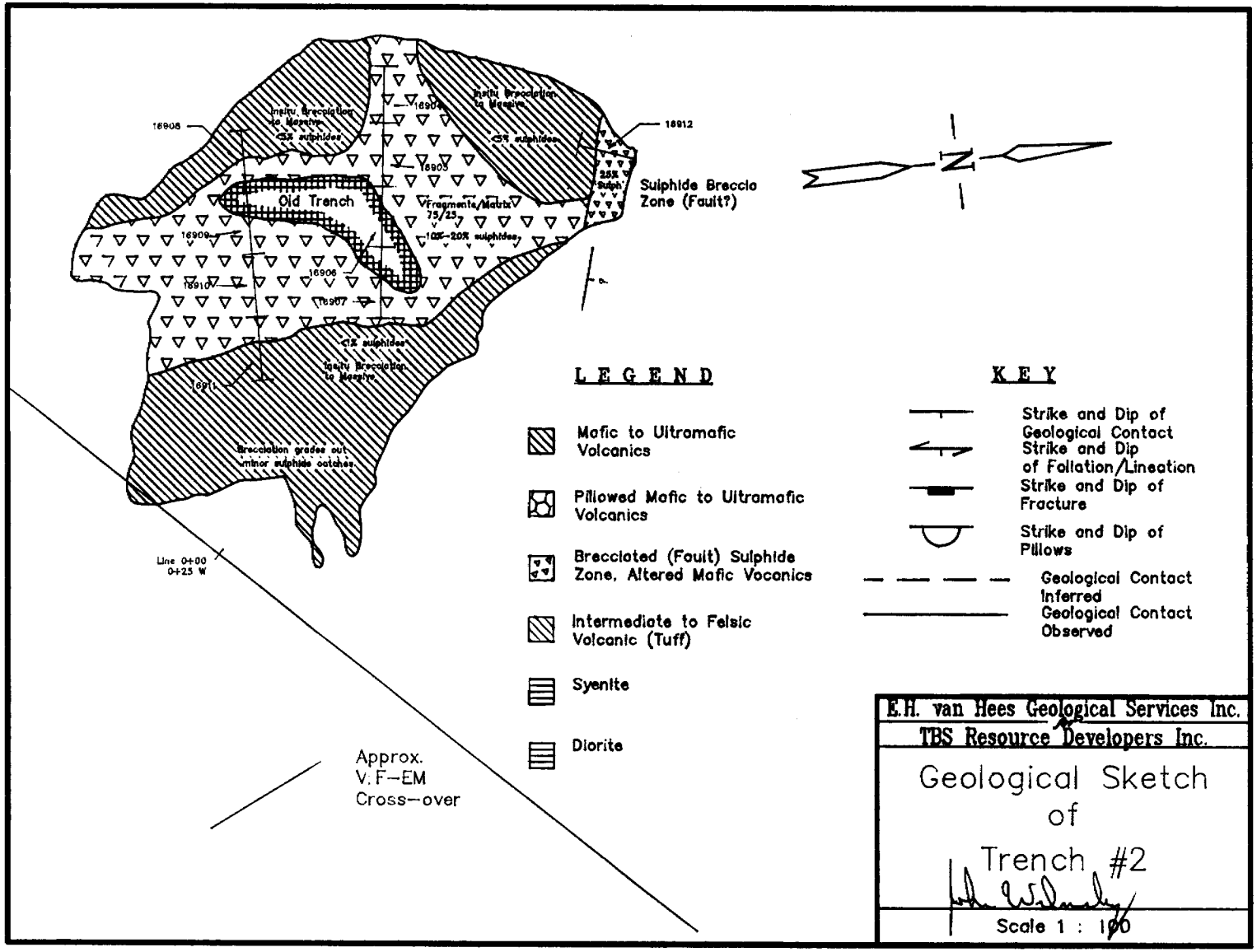
Swastika Laboratories Certificate No. 76093 Page -2-

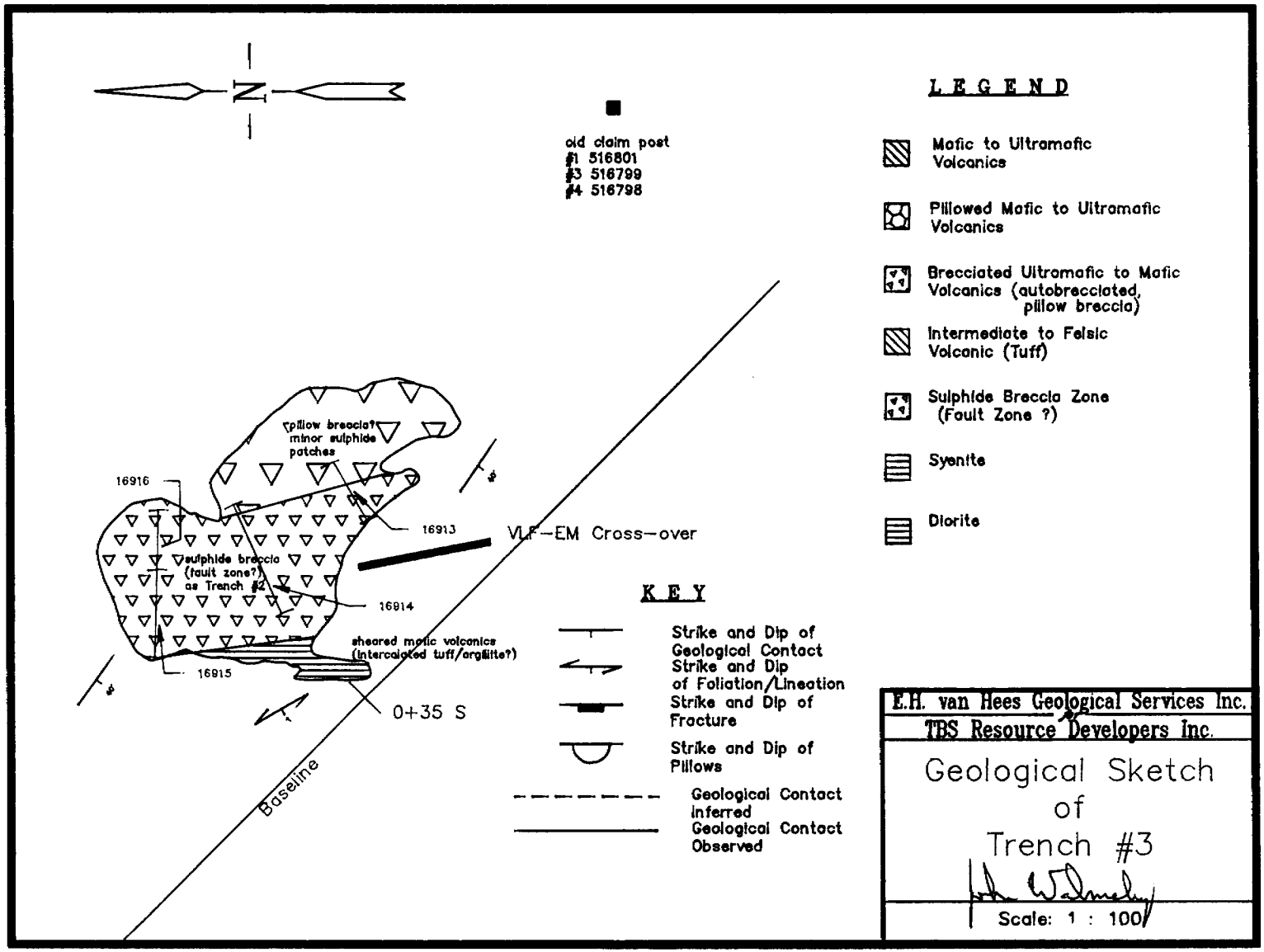
SAMPLE NO.	GOLD Oz/ton	SILVER Oz/ton	COPPER %	ZINC %	NICKEL %
16921	0.002/Nil	Nil	0.005	0.01	0.01
16922	Nil	Nil	0.01	0.005	0.01
16923	Nil	Nil	0.005	0.01	0.005
16924	Nil	Nil	0.01	0.005	0.01
16925	Nil	Trace	0.01	0.005	0.005
16926A	Nil	Nil	0.005	0.01	0.01
16926B	Nil	Nil	0.01	0.01	0.01
16927	Nil	Nil	0.01	0.01	0.01

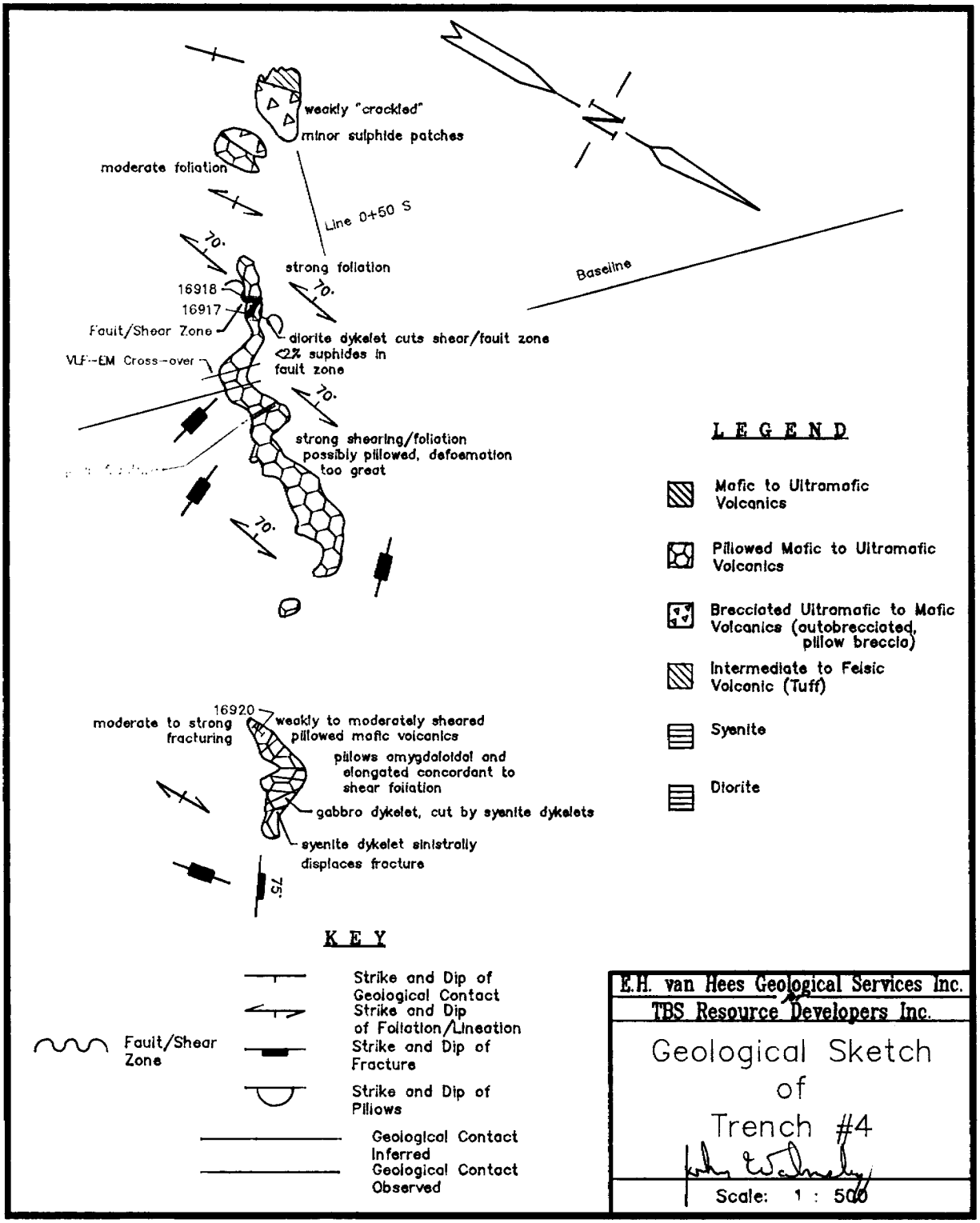
Per. G. Tebel - Manager

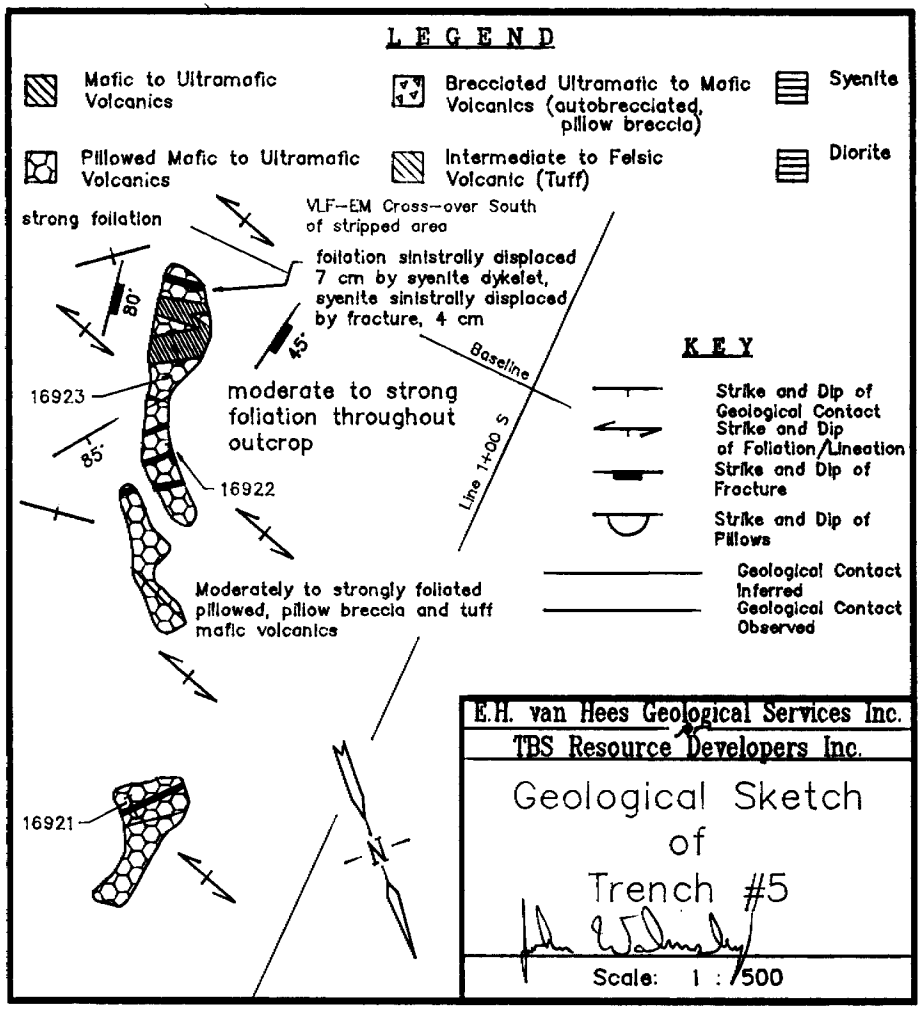
PROPERTY MAPS
and
TRENCH SKETCHES

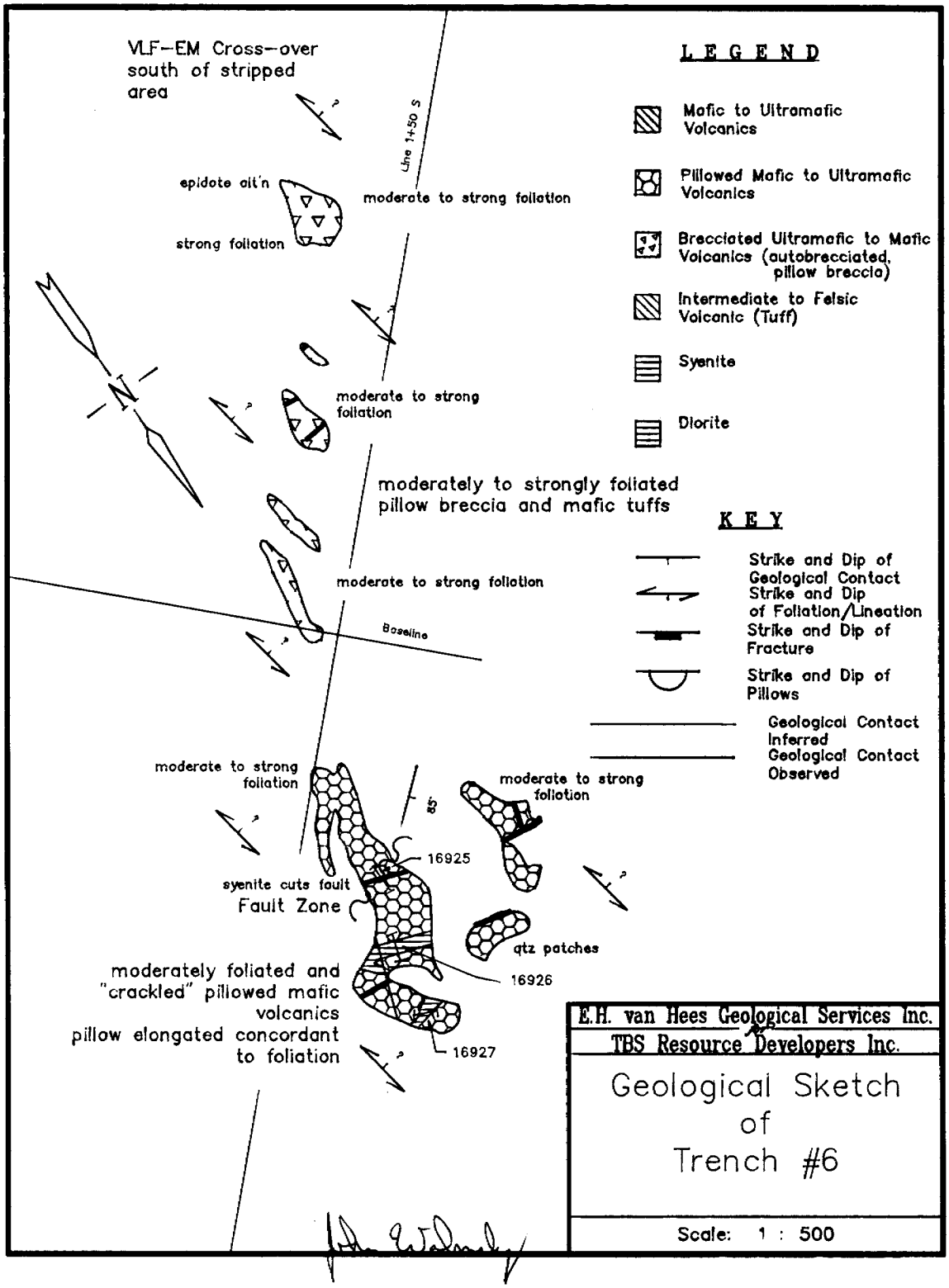

strongly fractured
crackled
crackled
rock extremely "crackled"
VLF-EM crossover, no visible cause
minor sulphide burns as patches, predominantly in pillow selvages
Line 0+50 N
18901
18902
18903
Baseline
Gossanous Hardpan outwash from fractures
qs
minor sulphide burns as patches in pillow selvages
0+75 E
KEY
Strike and Dip of Geological Contact
Strike and Dip of Foliation/Lineation
Strike and Dip of Fracture
Strike and Dip of Pillows
Geological Contact Inferred
Geological Contact Observed
LEGEND
Mafic to Ultramafic Volcanics
Pillowed Mafic to Ultramafic Volcanics
Brecciated Ultramafic to Mafic Volcanics (autobrecciated, pillow breccia)
Intermediate to Felsic Volcanic (Tuff)
Syenite
Diorite
E.H. van Hees Geological Services Inc.
TBS Resource Developers Inc.
Geological Sketch of Trench #1
Scale: 1 : 500

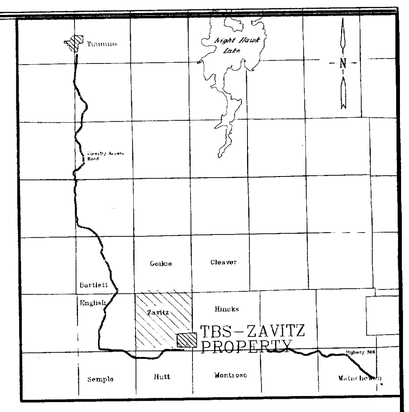

16908
16912
Old Trench
Fragments/Matrix 75/25
10%-20% sulphides
Sulphide Breccia Zone (Fault?)
16909
16906
16910
16907
16911
Line 0+00
0+25 W
Approx. V.F-EM Cross-over
LEGEND
Mafic to Ultramafic Volcanics
Pillowed Mafic to Ultramafic Volcanics
Brecciated (Fault) Sulphide Zone, Altered Mafic Voconics
Intermediate to Felsic Volcanic (Tuff)
Syenite
Diorite
KEY
Strike and Dip of Geological Contact
Strike and Dip of Foliation/Lineation
Strike and Dip of Fracture
Strike and Dip of Pillows
Geological Contact Inferred
Geological Contact Observed
E.H. van Hees Geological Services Inc.
TBS Resource Developers Inc.
Geological Sketch of Trench #2
Scale 1 : 100


N
old claim post
#1 516801
#3 516799
#4 516798
pillow breccia?
minor sulphide
patches
16916
16913
VLF-EM Cross-over
sulphide breccia
(fault zone?)
as Trench #2
16914
sheared mafic volcanics
(intercalated tuff/argillite?)
16915
0+35 S
Baseline
LEGEND
Mafic to Ultramafic Volcanics
Pillowed Mafic to Ultramafic Volcanics
Brecciated Ultramafic to Mafic Volcanics (autobrecciated, pillow breccia)
Intermediate to Felsic Volcanic (Tuff)
Sulphide Breccia Zone (Fault Zone ?)
Syenite
Diorite
KEY
Strike and Dip of Geological Contact
Strike and Dip of Foliation/Lineation
Strike and Dip of Fracture
Strike and Dip of Pillows
Geological Contact Inferred
Geological Contact Observed
E.H. van Hees Geological Services Inc.
TBS Resource Developers Inc.
Geological Sketch
of
Trench #3
Scale: 1 : 100


weakly "crackled"
minor sulphide patches
moderate foliation
Line 0+50 S
70.
strong foliation
Baseline
16918
16917
Fault/Shear Zone
diorite dykelet cuts shear/fault zone
<2% suphides in fault zone
VLF-EM Cross-over
strong shearing/foliation
possibly pillowed, defoemation too great
16920
moderate to strong fracturing
weakly to moderately sheared pillowed mafic volcanics
pillows amygdaloidal and elongated concordant to shear foliation
gabbro dykelet, cut by syenite dykelets
syenite dykelet sinistrally displaces fracture
75.
LEGEND
Mafic to Ultramafic Volcanics
Pillowed Mafic to Ultramafic Volcanics
Brecciated Ultramafic to Mafic Volcanics (autobrecciated, pillow breccia)
Intermediate to Felsic Volcanic (Tuff)
Syenite
Diorite
KEY
Strike and Dip of Geological Contact
Strike and Dip of Foliation/Lineation
Fault/Shear Zone
Strike and Dip of Fracture
Strike and Dip of Pillows
Geological Contact Inferred
Geological Contact Observed
E.H. van Hees Geological Services Inc.
TBS Resource Developers Inc.
Geological Sketch of Trench #4
Scale: 1 : 500


LEGEND
Mafic to Ultramafic Volcanics
Brecciated Ultramafic to Mafic Volcanics (autobrecciated, pillow breccia)
Syenite
Pillowed Mafic to Ultramafic Volcanics
Intermediate to Felsic Volcanic (Tuff)
Diorite
strong foliation
VLF-EM Cross-over South of stripped area
foliation sinistrally displaced 7 cm by syenite dykelet, syenite sinistrally displaced by fracture, 4 cm
80°
45°
Baseline
16923
moderate to strong foliation throughout outcrop
85°
16922
Line 1+00 S
KEY
Strike and Dip of Geological Contact
Strike and Dip of Foliation/Lineation
Strike and Dip of Fracture
Strike and Dip of Pillows
Geological Contact Inferred
Geological Contact Observed
Moderately to strongly foliated pillowed, pillow breccia and tuff mafic volcanics
16921
N
E.H. van Hees Geological Services Inc.
TBS Resource Developers Inc.
Geological Sketch of Trench #5
Scale: 1 : 500


VLF-EM Cross-over south of stripped area
Line 1+50 S
epidote alt'n
strong foliation
moderate to strong foliation
moderate to strong foliation
moderately to strongly foliated pillow breccia and mafic tuffs
moderate to strong foliation
Baseline
moderate to strong foliation
moderate to strong foliation
85°
16925
syenite cuts fault
Fault Zone
qtz patches
16926
moderately foliated and "crackled" pillowed mafic volcanics
pillow elongated concordant to foliation
16927
LEGEND
Mafic to Ultramafic Volcanics
Pillowed Mafic to Ultramafic Volcanics
Brecciated Ultramafic to Mafic Volcanics (autobrecciated, pillow breccia)
Intermediate to Felsic Volcanic (Tuff)
Syenite
Diorite
KEY
Strike and Dip of Geological Contact
Strike and Dip of Foliation/Lineation
Strike and Dip of Fracture
Strike and Dip of Pillows
Geological Contact Inferred
Geological Contact Observed
E.H. van Hees Geological Services Inc.
TBS Resource Developers Inc.
Geological Sketch of Trench #6
Scale: 1 : 500



LEGEND

1. Ultramafic Volcanics
2. Mafic to Ultramafic Volcanics
3. Intermediate Volcanics
4. Intermediate to Felsic Intrusives (Syenite)

KEY

- Strike and Dip of Foliation
- Strike and Dip of Fracture
- Strike and Dip of Contact
- Claim Line
- Anomaly Axis
- Claim Post Located
- Claim Post not Located
- Old Claim Post
- Swamp

mnp 81-32 63.5540

E.H. van Hees Geological Services Inc.

TBS Resource Developers Inc.

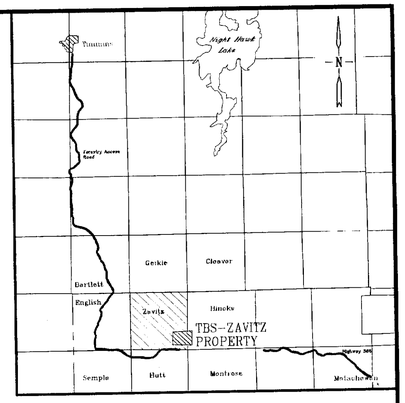
Geology and Anomalies of the TBS-Zavtiz Property

Mining Division: Porcupine	Province: Ontario
Township/Area: Zavitz	Project: TBS – Zavitz
References: Newmont 1980 Geology Map	Date: June, 1989
Survey: J.C., J.W., K.S.	Checked: J. Walmsley
Drawn By: J. Walmsley	
Scale: 1 : 2500	

E. H. van Hees Geological Services Inc.

42A03SE0154 63.5540 ZAVITZ

200



P 1027468 P 1027472 P 1027477 P 1027478 P 1027479 P 1027475 P 1027471 P 1027470 P 1027474 P 1027469 P 1027473 P 1027476

300 NORTH 200 NORTH 150 NORTH 100 NORTH 50 NORTH 0 50 SOUTH 100 SOUTH 150 SOUTH 200 SOUTH 250 SOUTH 300 SOUTH 350 SOUTH 400 SOUTH 500 SOUTH 600 SOUTH 700 SOUTH 800 SOUTH

300 EAST 200 EAST 100 EAST BASE LINE 100 WEST 200 WEST 300 WEST 400 WEST 500 WEST 600 WEST 700 WEST 800 WEST

pond

pond + swamp

pond

KEY

In-phase Quadrature

\+ −

Profile Scale: 1 cm = 5%
Instrument Used: Max-Min II
Frequency: 444 Hz
Coil Separation: 100 metres
Survey Date: July, 1989

E. H. van Hees Geological Services Inc.
165 Tamarack Street
Timmins, Ontario

OMIP 89-32 63.5540

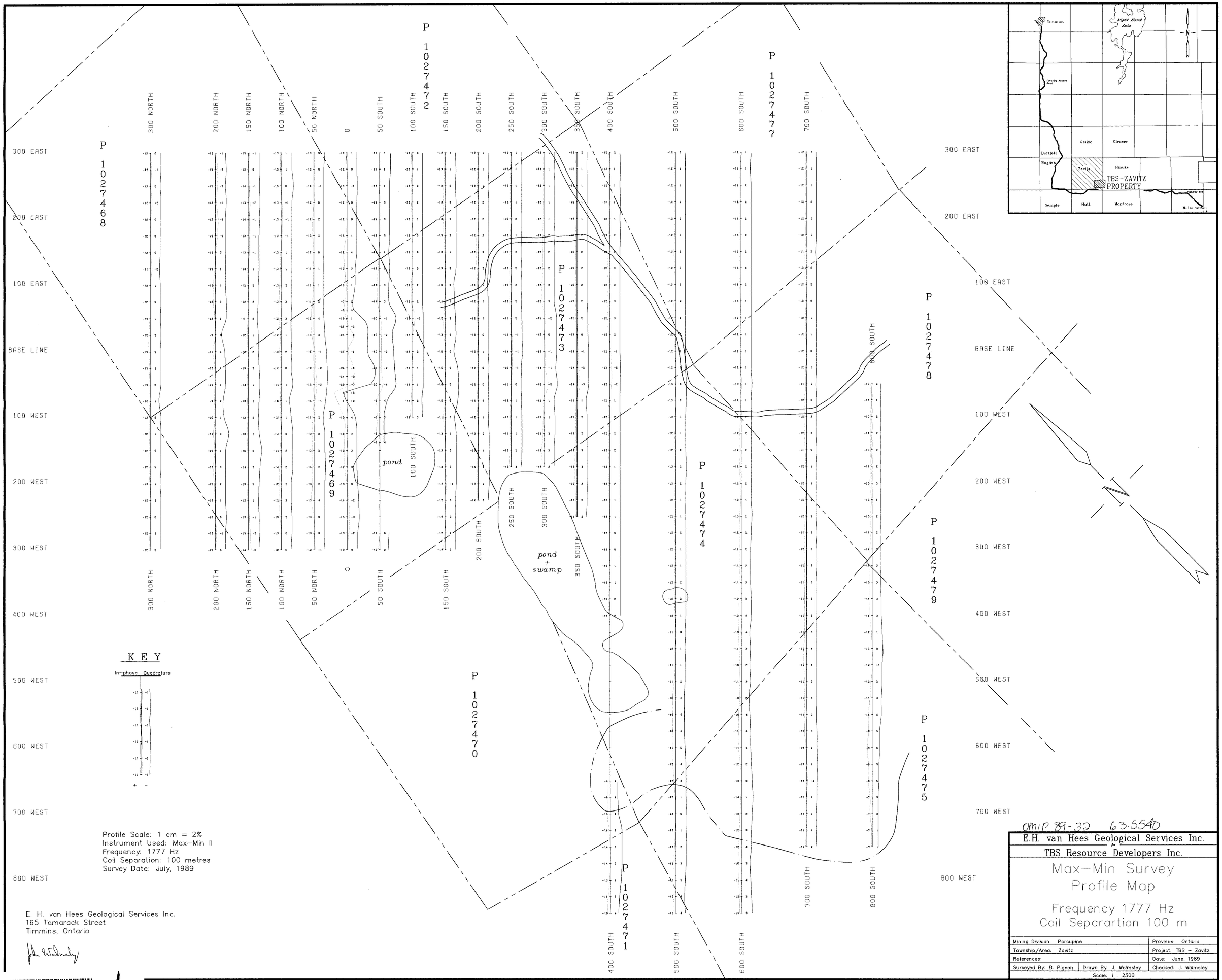
E.H. van Hees Geological Services Inc.

TBS Resource Developers Inc.

Max-Min Survey Profile Map

Frequency 444 Hz
Coil Separation 100 m

Mining Division: Porcupine	Province: Ontario
Township/Area: Zavitz	Project: TBS – Zavitz
References:	Date: June, 1989
Surveyed By: B. Pigeon / Drawn By: J. Walmsley	Checked: J. Walmsley
Scale: 1 : 2500	



KEY

In-phase Quadrature

+ −

Profile Scale: 1 cm = 2%
Instrument Used: Max-Min II
Frequency: 1777 Hz
Coil Separation: 100 metres
Survey Date: July, 1989

E. H. van Hees Geological Services Inc.
165 Tamarack Street
Timmins, Ontario

OMIP 89-32 63.5540

E.H. van Hees Geological Services Inc.

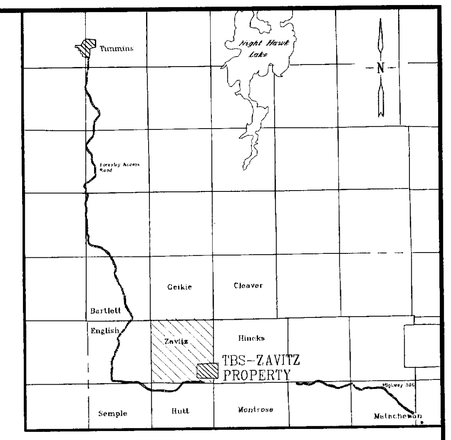
TBS Resource Developers Inc.

Max-Min Survey Profile Map

Frequency 1777 Hz
Coil Separartion 100 m

Mining Division: Porcupine	Province: Ontario
Township/Area: Zavitz	Project: TBS - Zavitz
References:	Date: June, 1989
Surveyed By: B. Pigeon / Drawn By: J. Walmsley	Checked: J. Walmsley

Scale: 1 : 2500



P 1027468 P 1027472 P 1027477 P 1027478 P 1027479 P 1027475 P 1027474 P 1027473 P 1027469 P 1027470 P 1027471

300 NORTH 200 NORTH 150 NORTH 100 NORTH 50 NORTH 0 50 SOUTH 100 SOUTH 150 SOUTH 200 SOUTH 250 SOUTH 300 SOUTH 350 SOUTH 400 SOUTH 500 SOUTH 600 SOUTH 700 SOUTH 800 SOUTH

300 EAST 200 EAST 100 EAST BASE LINE 100 WEST 200 WEST 300 WEST 400 WEST 500 WEST 600 WEST 700 WEST 800 WEST 900 WEST

pond

pond + swamp

KEY

In-phase Quadrature

Cross-over

\+ −

Profile Scale: 1 cm = 5%
Transmitting Station: Annapolis, Maryland, NSS
Frequency: 21.4 KHz
Instrument: Scintrex IGS IV
Survey Date: June, 1989

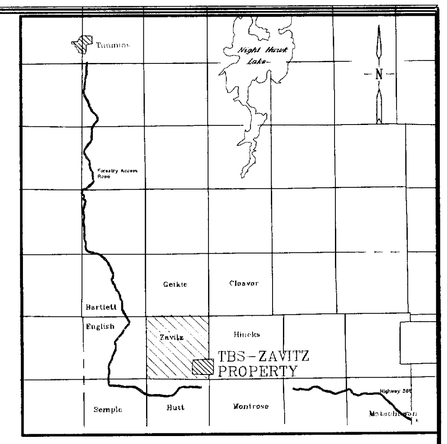
E. H. van Hees Geological Services Inc.
165 Tamarack Street
Timmins, Ontario

OMIP 89-32 63.5540

E.H. van Hees Geological Services Inc.
for
TBS Resource Developers Inc.

VLF – EM Survey
Profile Map
Transmitting Station Annapolis, Maryland

Mining Division: Porcupine	Province: Ontario
Township/Area: Zavitz	Project: TBS – Zavitz
References:	Date: June, 1989
Surveyed By: B. Pigeon / Drawn By: J. Walmsley	Checked: J. Walmsley
Scale: 1 : 2500	



P 1027468

P 1027472

P 1027477

P 1027473

P 1027478

P 1027469

P 1027474

P 1027479

P 1027470

P 1027475

P 1027471

300 NORTH
200 NORTH
150 NORTH
100 NORTH
50 NORTH
0
50 SOUTH
100 SOUTH
150 SOUTH
200 SOUTH
250 SOUTH
300 SOUTH
350 SOUTH
400 SOUTH
500 SOUTH
600 SOUTH
700 SOUTH
800 SOUTH

300 EAST
200 EAST
100 EAST
BASE LINE
100 WEST
200 WEST
300 WEST
400 WEST
500 WEST
600 WEST
700 WEST
800 WEST
900 WEST

pond
pond + swamp

KEY

In-phase Quadrature

Cross-over

\+ −

Profile Scale: 1 cm = 5%
Transmitting Station: Cutler, Maine, NAA
Frequency: 24.0 KHz
Instrument: Scintrex IGS IV
Survey Date: June, 1989

E. H. van Hees Geological Services Inc.
165 Tamarack Street
Timmins, Ontario

OMIP 89-32 63.5540

E.H. van Hees Geological Services Inc.

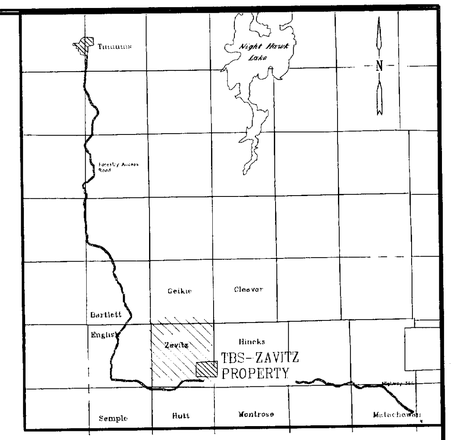
TBS Resource Developers Inc.

VLF – EM Survey
Profile Map
Transmitting Station
Cutler, Maine

Mining Division: Porcupine	Province: Ontario
Township/Area: Zavitz	Project: TBS – Zavitz
References:	Date: June, 1989
Surveyed By: B. Pigeon / Drawn By: J. Walmsley	Checked: J. Walmsley

Scale 1 : 2500

1
240



P 1027472

P 1027477

P 1027468

P 1027473

P 1027478

P 1027469

P 1027474

P 1027479

P 1027470

P 1027475

P 1027471

300 NORTH
200 NORTH
150 NORTH
100 NORTH
50 NORTH
0
50 SOUTH
100 SOUTH
150 SOUTH
200 SOUTH
250 SOUTH
300 SOUTH
350 SOUTH
400 SOUTH
500 SOUTH
600 SOUTH
700 SOUTH
800 SOUTH

300 EAST
200 EAST
100 EAST
BASE LINE
100 WEST
200 WEST
300 WEST
400 WEST
500 WEST
600 WEST
700 WEST
800 WEST
900 WEST

pond

pond + swamp

Transmitting Station: Annapolis, Maryland, NSS
Frequency: 21.4 KHz
Instrument: Scintrex IGS IV
Survey Date: June, 1989
Contour Interval: 5%

E. H. van Hees Geological Services Inc.
165 Tamarack Street
Timmins, Ontario

OMIP 89-32 63.5540

E.H. van Hees Geological Services Inc.
for
TBS Resource Developers Inc.

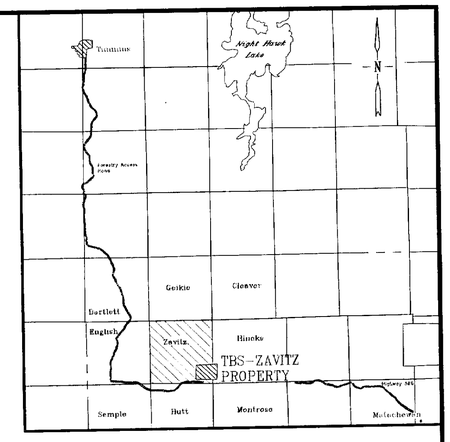
VLF – EM Survey
Fraser Filter Contour Map

Transmitting Station
Annapolis, Maryland

Mining Division: Porcupine	Province: Ontario
Township/Area: Zavitz	Project: TBS – Zavitz
References:	Date: June, 1989
Surveyed By: B. Pigeon / Drawn By: J. Walmsley	Checked: J. Walmsley
Scale: 1" = 250'	

42A03SE0154 63.5540 ZAVITZ

1/250



300 NORTH 200 NORTH 150 NORTH 100 NORTH 50 NORTH 0 50 SOUTH 100 SOUTH 150 SOUTH 200 SOUTH 250 SOUTH 300 SOUTH 350 SOUTH 400 SOUTH 500 SOUTH 600 SOUTH 700 SOUTH 800 SOUTH

300 EAST 200 EAST 100 EAST BASE LINE 100 WEST 200 WEST 300 WEST 400 WEST 500 WEST 600 WEST 700 WEST 800 WEST

P 1027468 P 1027472 P 1027477 P 1027473 P 1027469 P 1027474 P 1027478 P 1027479 P 1027470 P 1027475 P 1027471

pond

pond + swamp

Transmitting Station: Cutler, Maine, NAA
Frequency: 24.0 KHz
Instrument: Scintrex IGS IV
Survey Date: June, 1985
Contour Interval: 5%

E. H. van Hees Geological Services Inc.
165 Tamarack Street
Timmins, Ontario

OMIP 89-37 63.5540

E.H. van Hees Geological Services Inc.

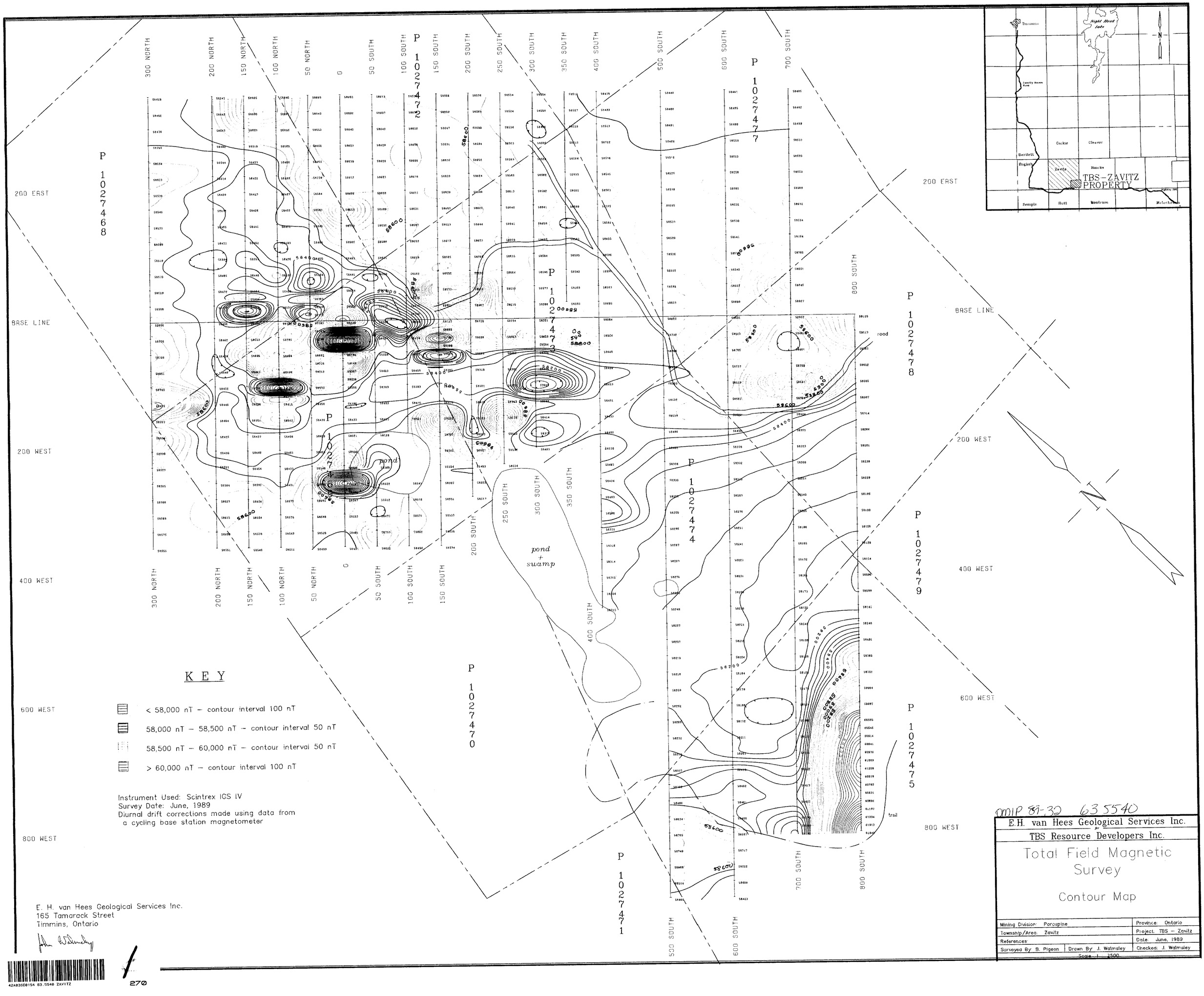
TBS Resource Developers Inc.

VLF - EM Survey

Fraser Filter Contour Map

Transmitting Station
Cutler, Maine

Mining Division: Porcupine	Province: Ontario
Township/Area: Zavitz	Project: TBS - Zavitz
References:	Date: June, 1989
Surveyed By: B. Pigeon / Drawn By: J. Walmsley	Checked: J. Walmsley
Scale: 1" = 2500	



KEY

- < 58,000 nT – contour interval 100 nT
- 58,000 nT – 58,500 nT – contour interval 50 nT
- 58,500 nT – 60,000 nT – contour interval 50 nT
- > 60,000 nT – contour interval 100 nT

Instrument Used: Scintrex IGS IV
Survey Date: June, 1989
Diurnal drift corrections made using data from a cycling base station magnetometer

E. H. van Hees Geological Services Inc.
165 Tamarack Street
Timmins, Ontario

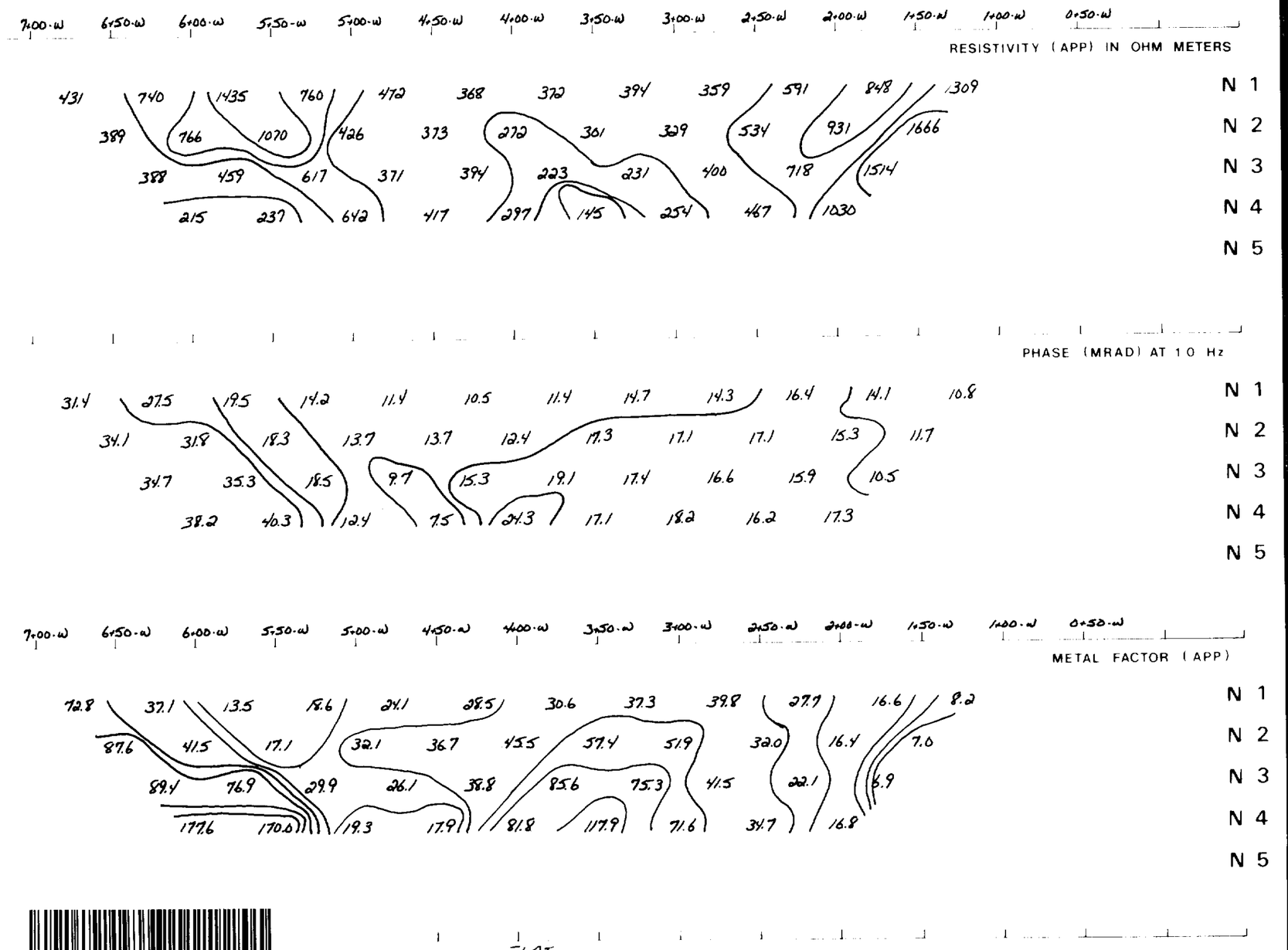
OMIP 89-32 635540

E.H. van Hees Geological Services Inc.
for
TBS Resource Developers Inc.

Total Field Magnetic Survey

Contour Map

Mining Division: Porcupine	Province: Ontario
Township/Area: Zavitz	Project: TBS – Zavitz
References:	Date: June, 1989
Surveyed By: B. Pigeon / Drawn By: J. Walmsley	Checked: J. Walmsley
Scale: 1 : 2500	



INDUCED POLARIZATION AND RESISTIVITY SURVEY

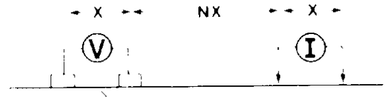
COMPANY: TBS - ZAVITZ I.P. PROGRAM

Property: ZAVITZ TWP.

OMIP 89-32 63.5540

LINE No. 8+00-S

ELECTRODE CONFIGURATION
(DIPOLE - DIPOLE)



PLOTTING POINT X X 50-M

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

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

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

DATE SURVEYED: July - 12 - 1989

OPERATOR: JEAN-GUY DUBÉ

APPROVED: R. Belanger

DATE: July 19-89

REMY BELANGER INC.

42A03SE0154 63.5540 ZAVITZ

INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: TBS - ZAVITZ I.P. PROGRAM

Property: ZAVITZ TWP.

OMP 89-32 635540

LINE No. 7+00 S

ELECTRODE CONFIGURATION
(DIPOLE - DIPOLE)

- x -- NX -- x -

V I

PLOTTING POINT - x x 50 m.

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

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

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

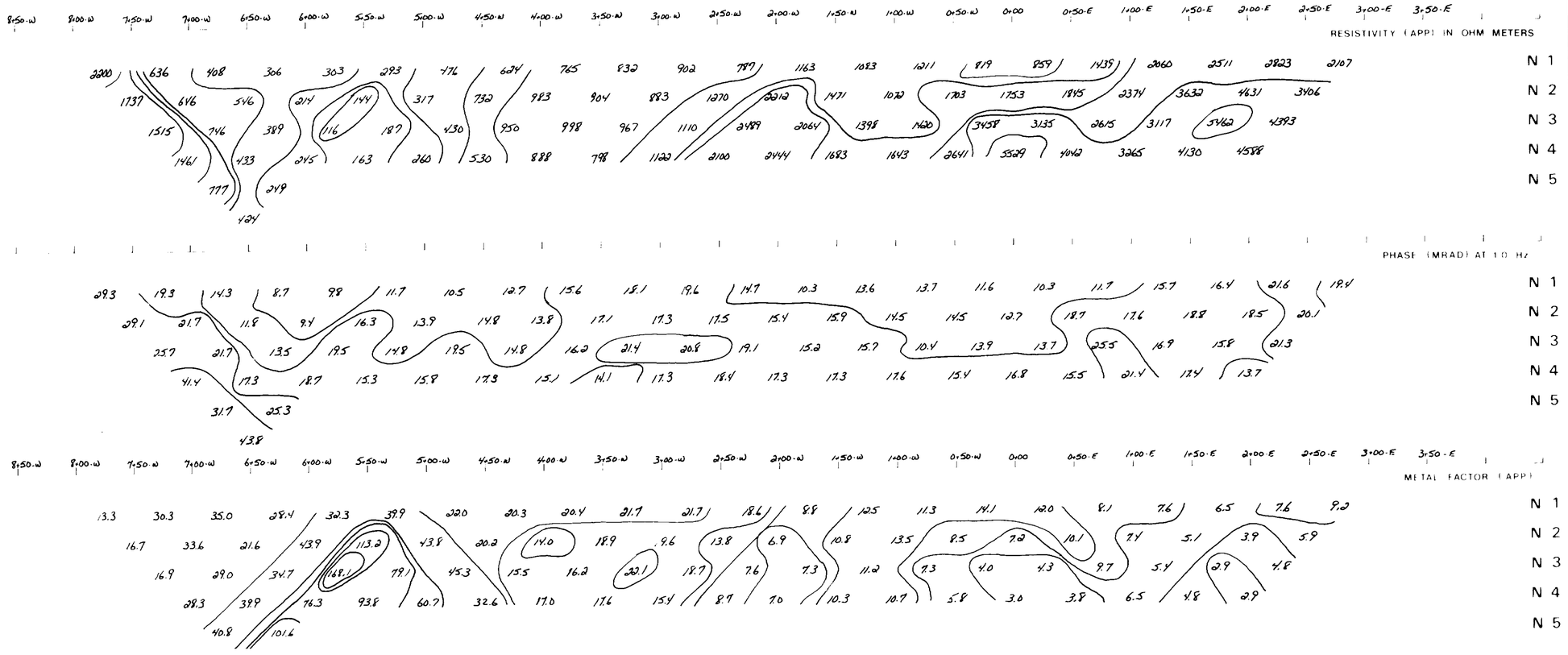
DATE SURVEYED: July-11-12-1989

OPERATOR: JEAN-GUY BUBÉ

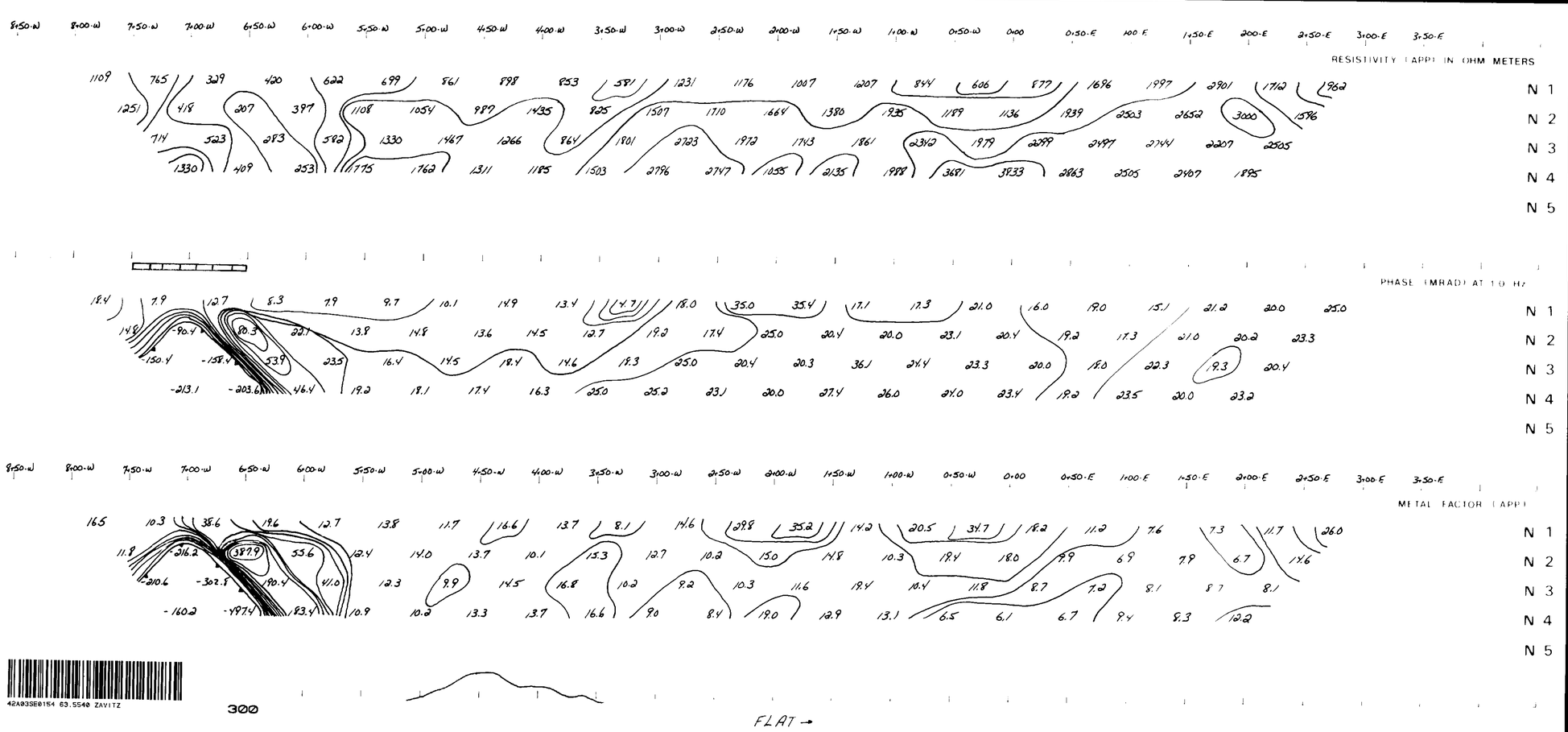
APPROVED: R. Belanger.

DATE: July 19-89

REMY BELANGER INC.



42A03SE0154 63.5540 ZAVITZ



300

INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: TBS - ZAVITZ I.P PROGRAM

Property: ZAVITZ TWP.

OMP 89-32 63.5540

LINE No. 6+00·S

ELECTRODE CONFIGURATION
(DIPOLE DIPOLE)

- X -- NX -- X -
V I

PLOTTING POINT - X X 50. M.

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE
PROBABLE
POSSIBLE

INSTRUMENT PHOENIX IPV-4 SPECTRAL FREQUENCY 1.0 Hz
IPT 1 CR 2

*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1.5 2.3 5 7.5 10)

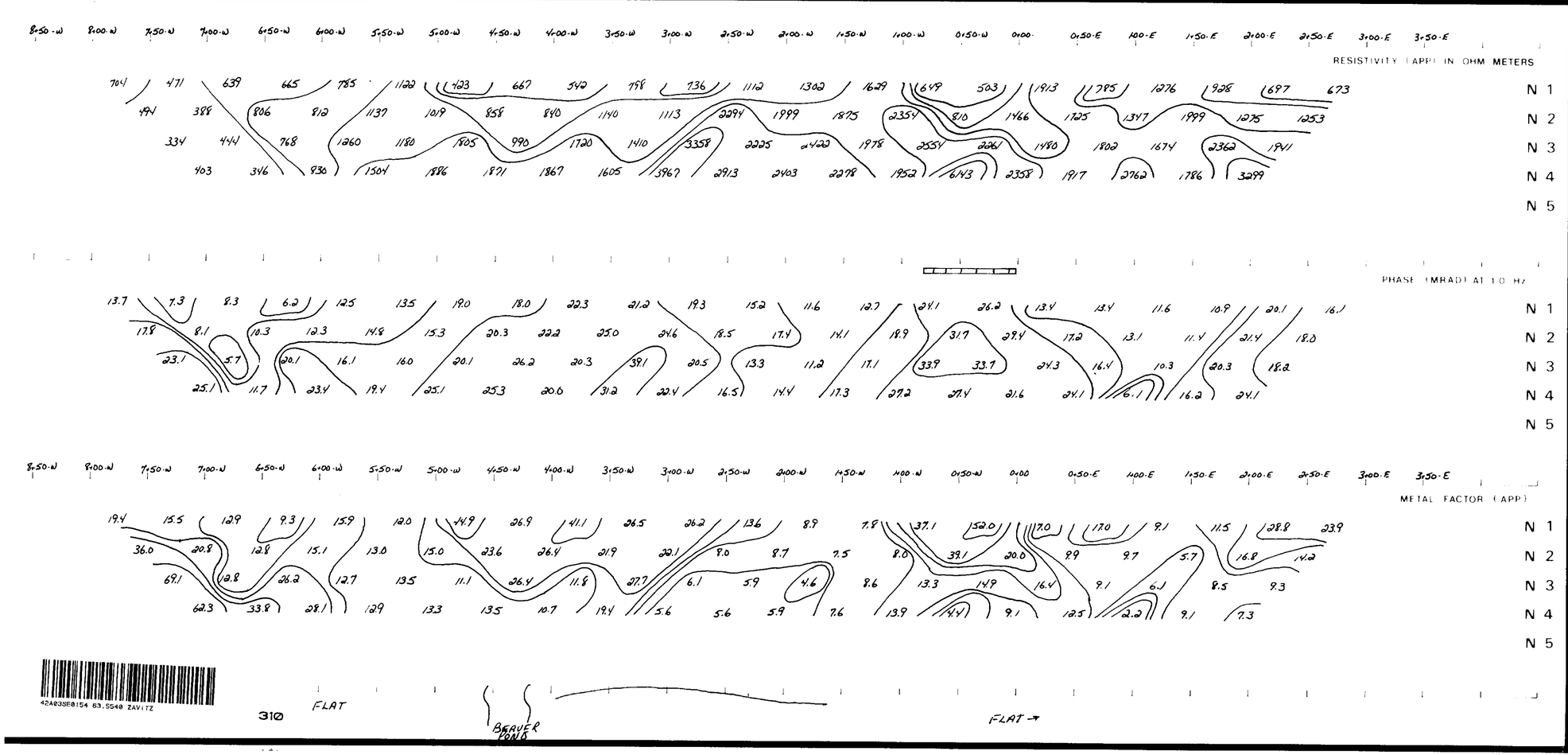
DATE SURVEYED:
July - 11. 12. 1989

OPERATOR:
JEAN-GUY DUBÉ
YVES BOUCHER.

APPROVED:
R. Belanger.

DATE:
July 19-89

REMY BELANGER INC.



42A03SE0154 63.5540 ZAVITZ

310

INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: TBS - ZAVITZ I.P. PROGRAM

Property: ZAVITZ TWP.

OMIP 89-32 63.5540

LINE No. 5700·S

ELECTRODE CONFIGURATION
(DIPOLE - DIPOLE)

- X - - NX - - X -

V I

PLOTTING POINT - X X 50-M.

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

INSTRUMENT PHOENIX IPV-4 SPECTRAL IPT-1 CR-2 FREQUENCY 1.0 Hz

*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1.1.5.2.3.5.7.5.10)

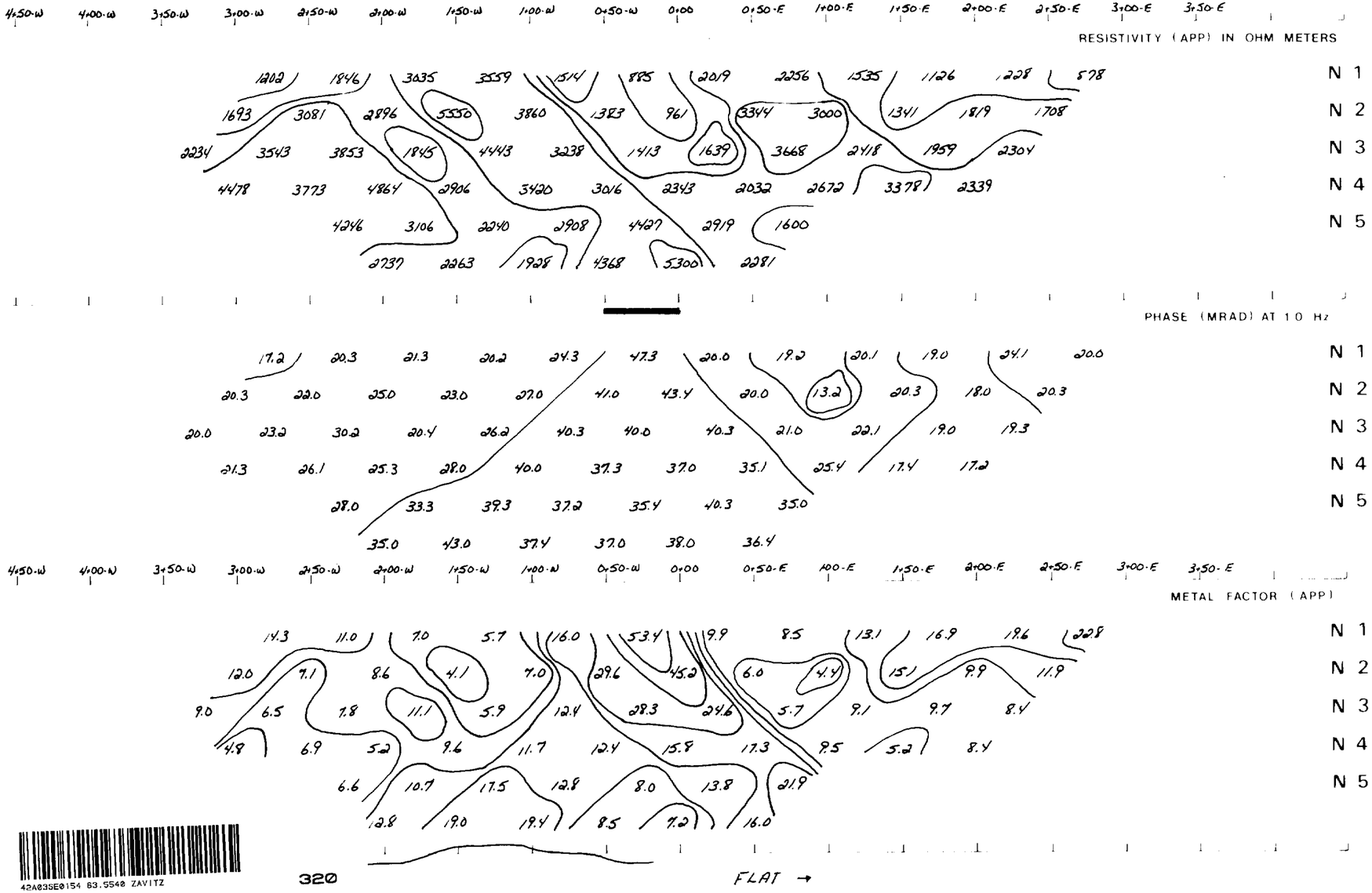
DATE SURVEYED: July-11-12-1989

APPROVED: R. Belanger

OPERATOR: JEAN-GUY-DUBÉ YVES BOUCHER.

DATE: July 19-89

REMY BELANGER INC.



42A03SE0154 63.5540 ZAVITZ

320

INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: TBS. ZAVITZ I.P. PROGRAM

Property: ZAVITZ TWP.

OMIP 89-32 63.5540

LINE No. 4+00-S

ELECTRODE CONFIGURATION
(DIPOLE - DIPOLE)

- X - - NX - - X -

(V) (I)

PLOTTING POINT - X X 50-m.

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

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)

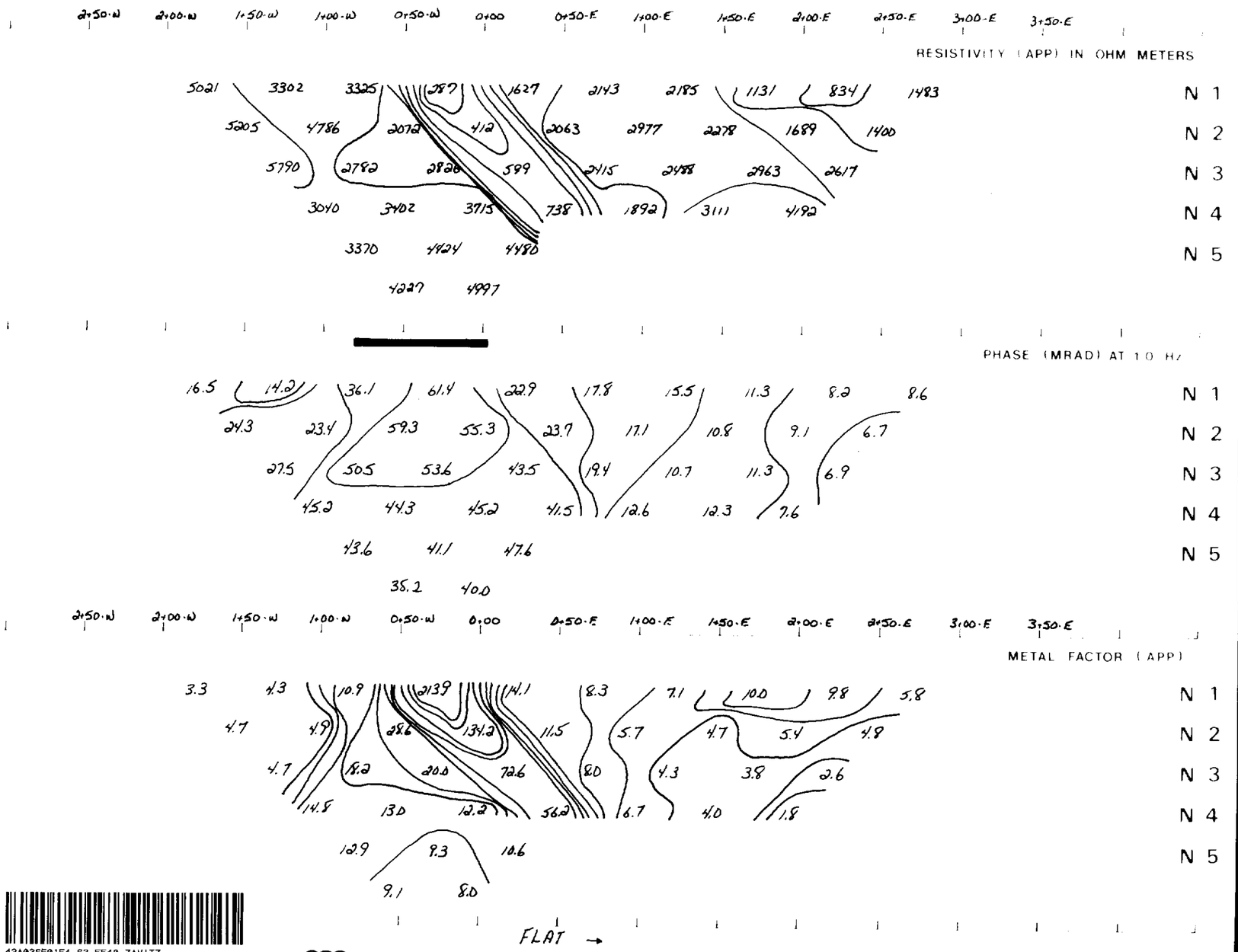
DATE SURVEYED: JULY - 11 - 1989

APPROVED: R. Belanger.

OPERATOR: JULES BOUCHER.

DATE: July 19-89

REMY BELANGER INC.



INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: TBS - ZAVITZ I.P. PROGRAM

Property: ZAVITZ TWP.

OMIP 89-32 63.5540

LINE No. 3+50·S

ELECTRODE CONFIGURATION
(DIPOLE DIPOLE)

- X - - NX - - X -

V I

PLOTTING POINT - X X - 50·M.

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

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 - 11 - 1989

APPROVED: R. Belanger.

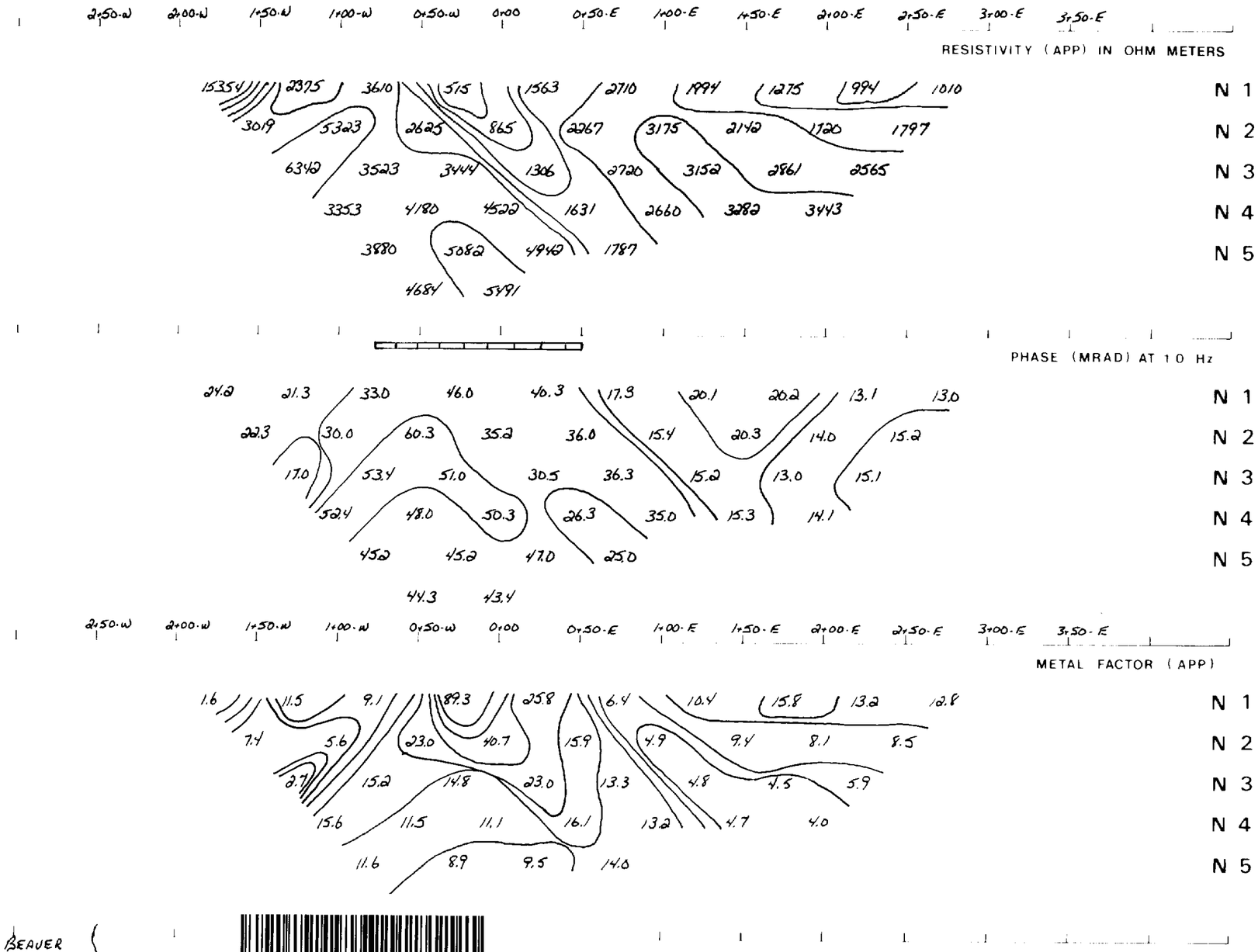
OPERATOR: JUES BOUCHER.

DATE: July 19-89

REMY BELANGER INC. GEOPHYSICIENS

REMY BELANGER INC.

42A03SE0154 63.5540 ZAVITZ



BEAVER POND

INDUCED POLARIZATION AND RESISTIVITY SURVEY

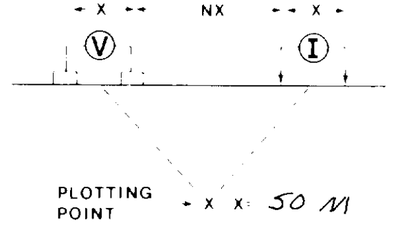
COMPANY: TBS - ZAVITZ I.P PROGRAM

Property: ZAVITZ TWP.

OMIP 89-32 63.5540

LINE No. 3+00 - S

ELECTRODE CONFIGURATION
(DIPOLE - DIPOLE)



SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

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. 1987

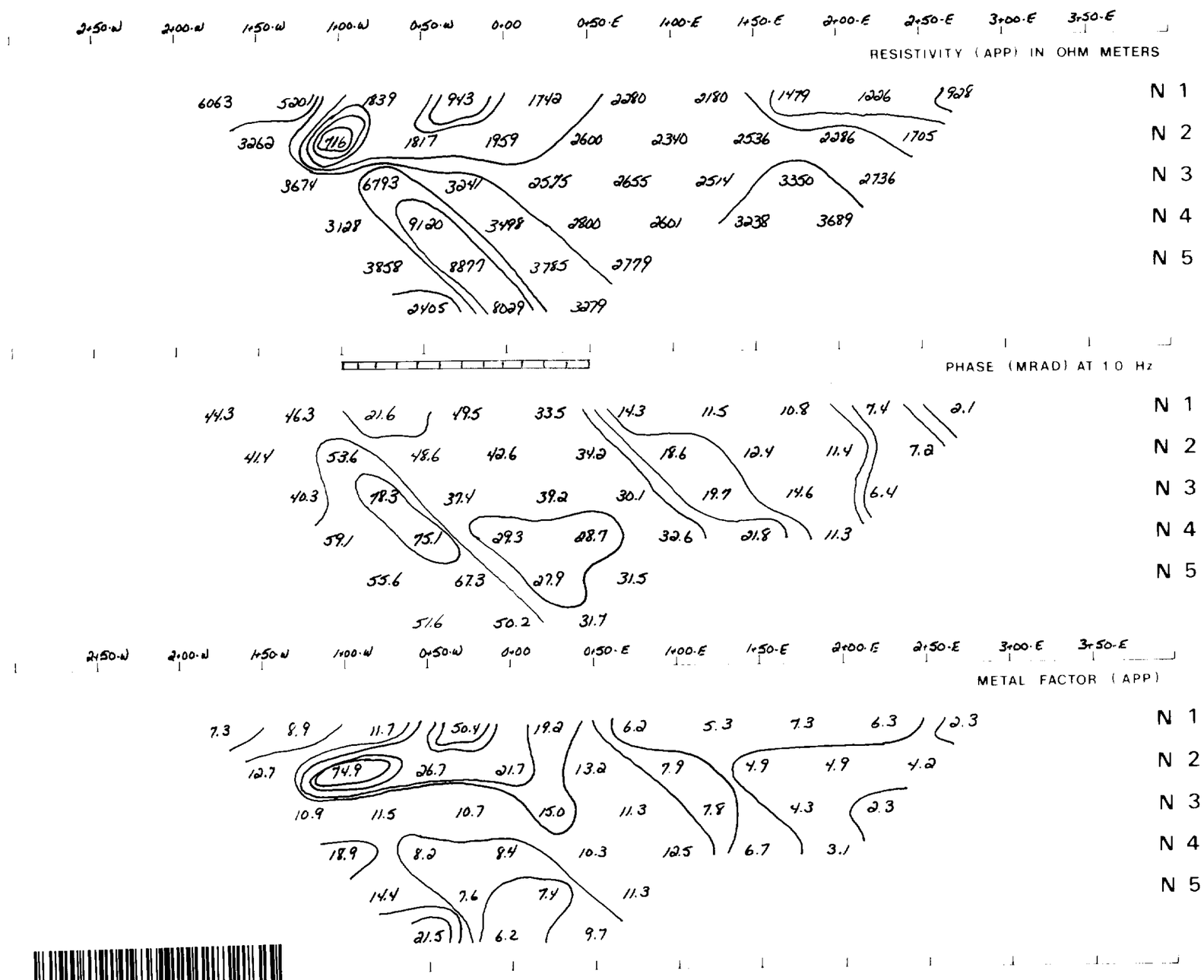
APPROVED: R. Belanger.

OPERATOR: YVES BOUCHER

DATE: July 19 - 89

REMY BELANGER INC. GEOPHYSIQUE

REMY BELANGER INC.



INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: TBS- ZAVITZ I.P. Program

Property: ZAVITZ TWP.

OMIP 89-32 63.5540

LINE No. 2+50-S

ELECTRODE CONFIGURATION
(DIPOLE - DIPOLE)

- X -- NX -- X -

V I

PLOTTING POINT - X X: 50-M

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

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

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

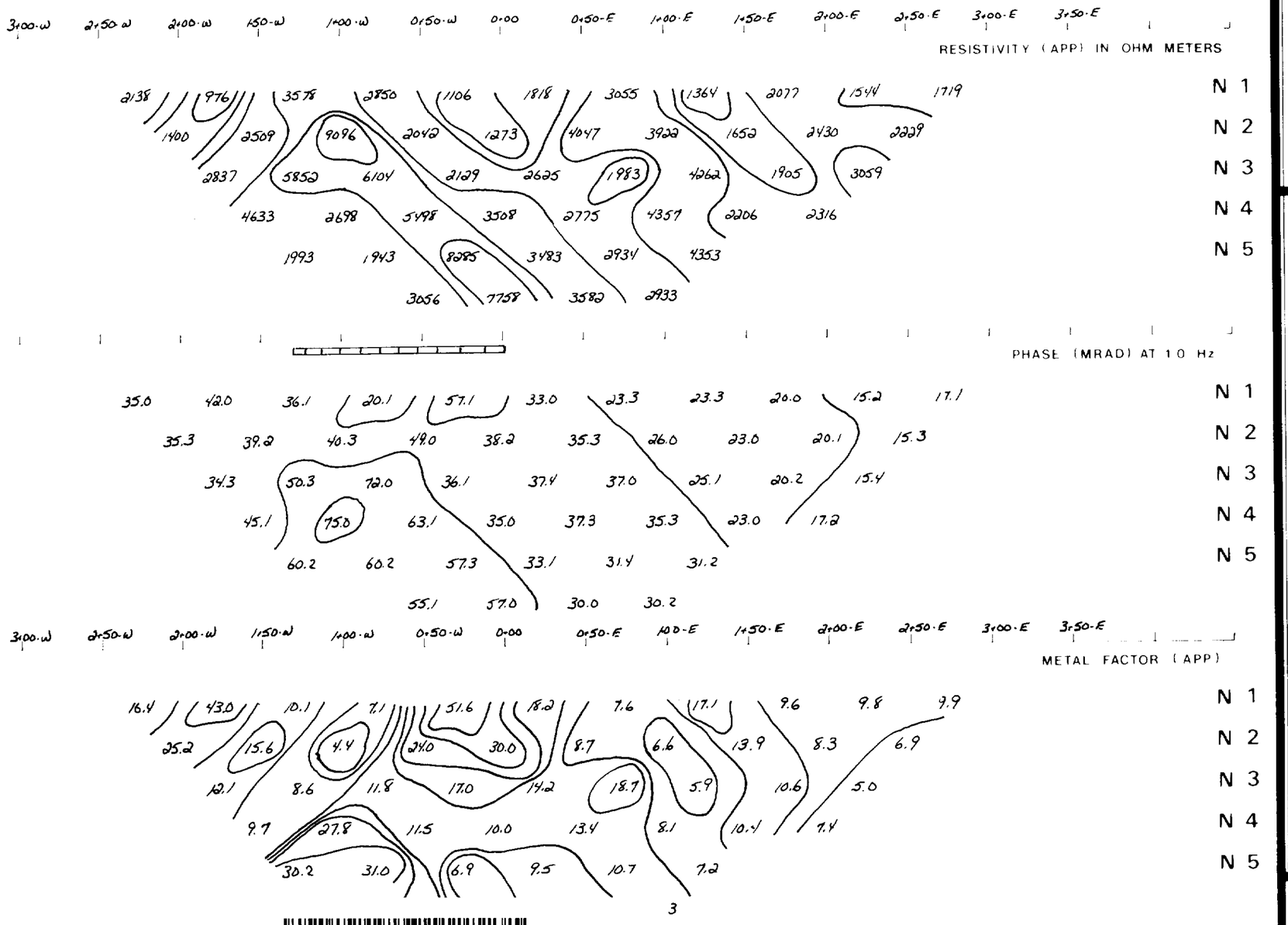
DATE SURVEYED: July - 10- 1989

OPERATOR: JEAN-Guy DUBÉ

APPROVED: R. Belanger

DATE: July 19-89

REMY BELANGER INC.



BEAVER POND

42A03SE0154 63.5540 ZAVITZ

INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: TBS. ZAVITZ I.P. PROGRAM

Property: ZAVITZ TWP.

OMIP 89-32 63.5540

LINE No. 2+00·S

ELECTRODE CONFIGURATION
(DIPOLE - DIPOLE)

- X - - NX - - X -
V I

PLOTTING POINT - X X - 50 M.

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE
PROBABLE
POSSIBLE

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 1989

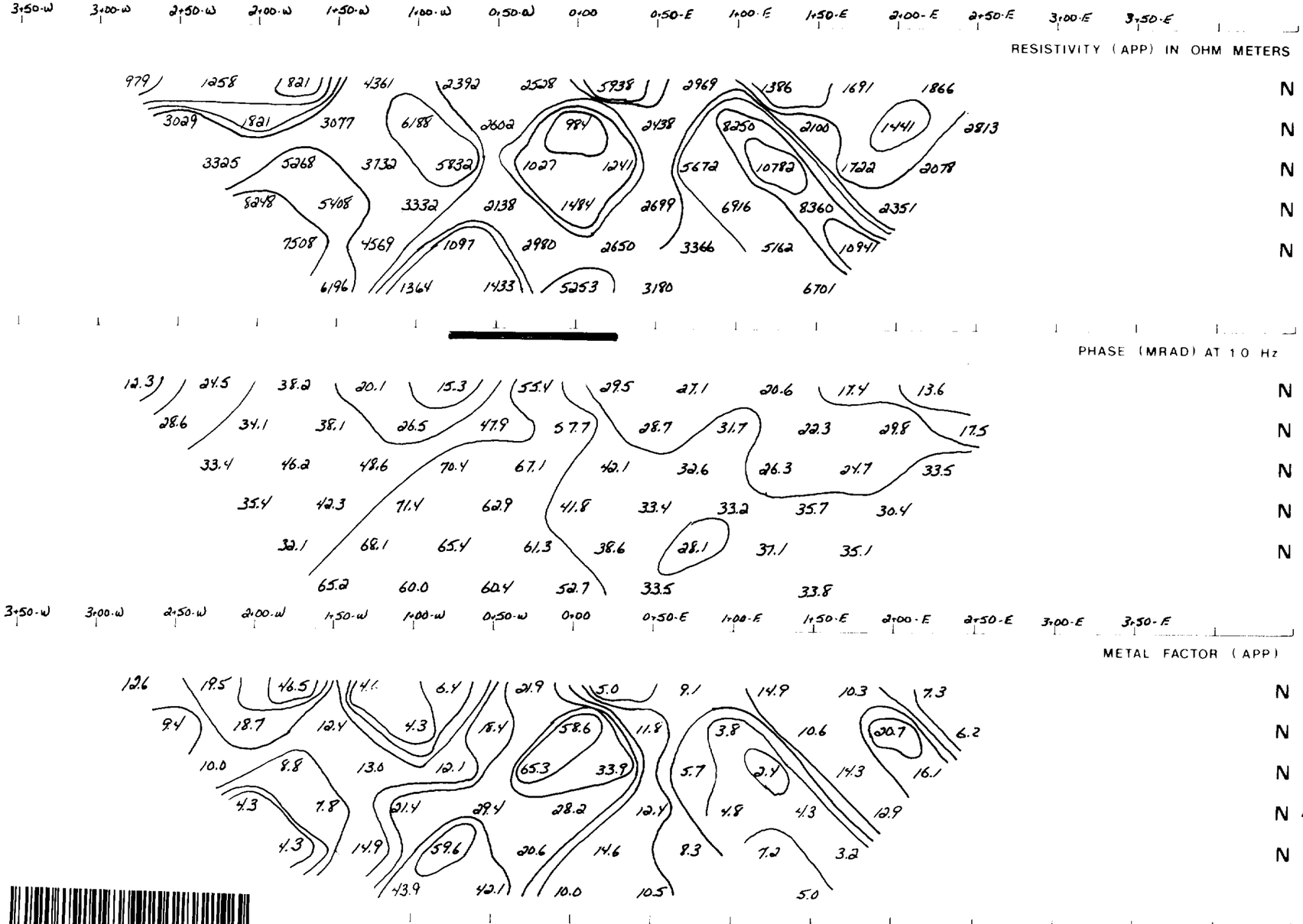
OPERATOR: YVES BOUCHER.

APPROVED: R. Bélanger.

DATE: July 19-89

REMY BELANGER INC. GEOPHYSIQUE

REMY BELANGER INC.



42A03SE0154 63.5540 ZAVITZ

370

INDUCED POLARIZATION AND RESISTIVITY SURVEY

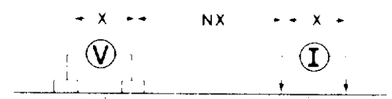
COMPANY: TBS. ZAVITZ I.P. PROGRAM

Property: ZAVITZ TWP.

UMIP X4-32 63.5540

LINE No. 1+50-S

ELECTRODE CONFIGURATION
(DIPOLE - DIPOLE)



PLOTTING POINT X X 50 M.

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

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

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

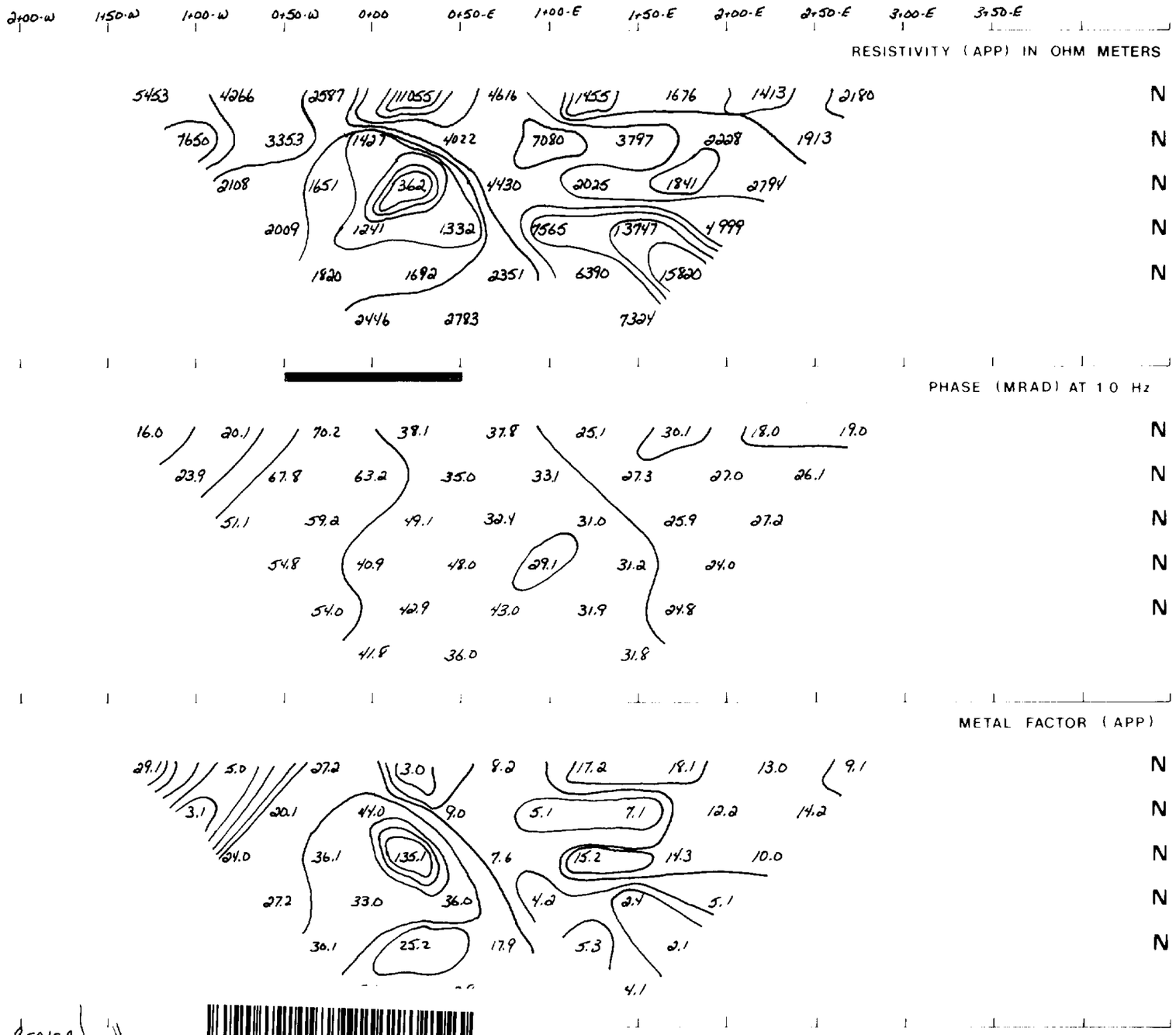
DATE SURVEYED: July-10-1989

OPERATOR: JEAN-GUY DUBÉ

APPROVED: R. Belanger

DATE: July 19-89

REMY BELANGER INC.



BEAVER POND

DRILL HOLE

INDUCED POLARIZATION AND RESISTIVITY SURVEY

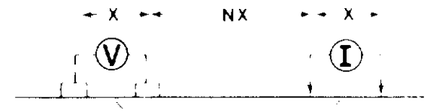
COMPANY = TBS - ZAVITZ I.P. PROGRAM

Property = ZAVITZ TWP.

OMIP 89-32 63.5540

LINE No. 1+00 S

ELECTRODE CONFIGURATION
(DIPOLE - DIPOLE)



PLOTTING POINT X X 50. M

SURFACE PROJECTION
OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

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

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

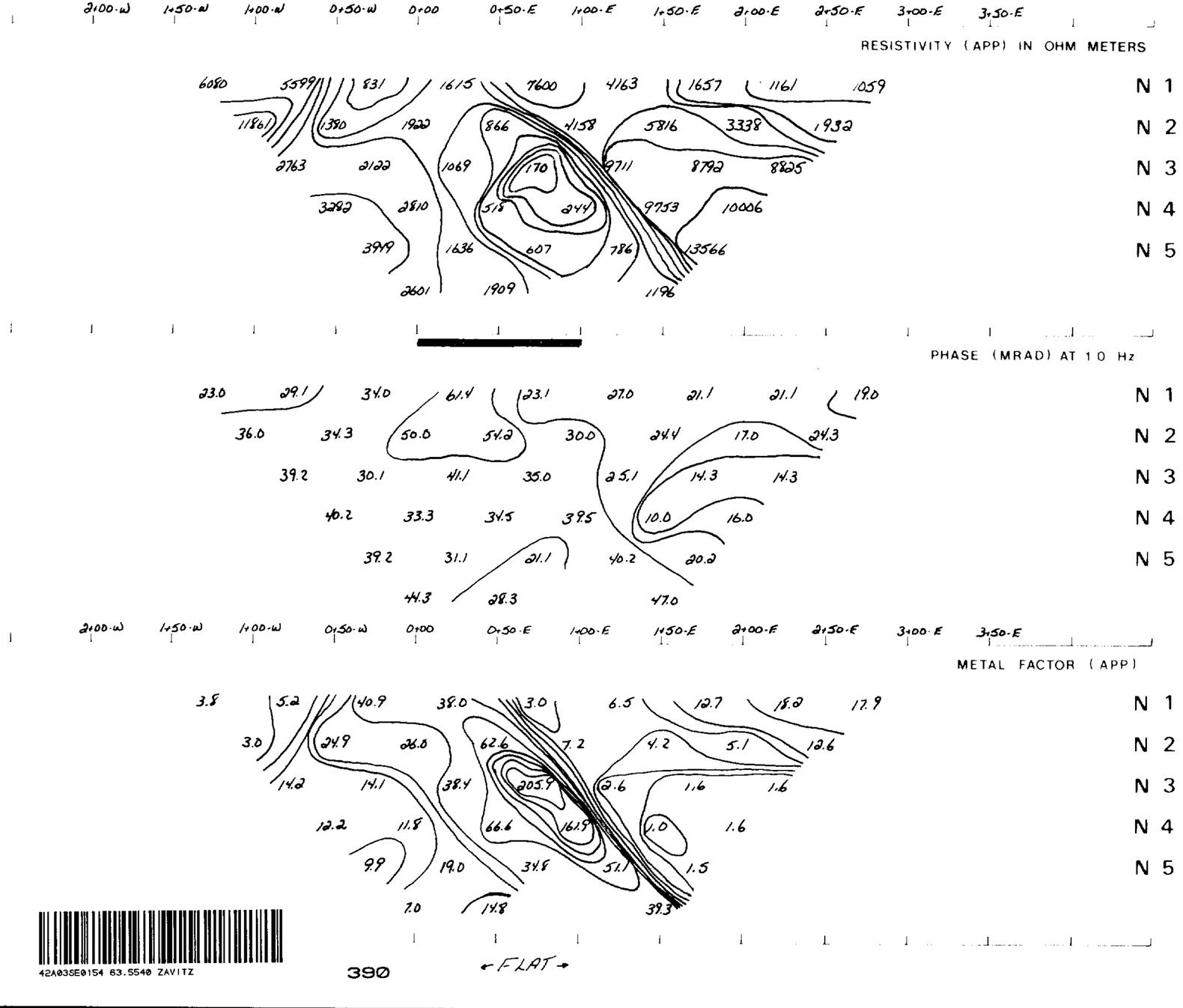
DATE SURVEYED:
JULY - 07- 1989

APPROVED:
R. Belanger

OPERATOR:
JEAN-GUY SUBÉ

DATE:
July 19-89

REMY BELANGER INC.



42A03SE0154 63.5540 ZAVITZ

INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY = TBS - ZAVITZ I.P. PROGRAM

Property = ZAVITZ TWP.

OMIP 89-32 63.5540

LINE No. 0+50-S

ELECTRODE CONFIGURATION
(DIPOLE - DIPOLE)

- X - - NX - - X -
V I

PLOTTING POINT - X X 50 M.

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE
PROBABLE
POSSIBLE

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

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

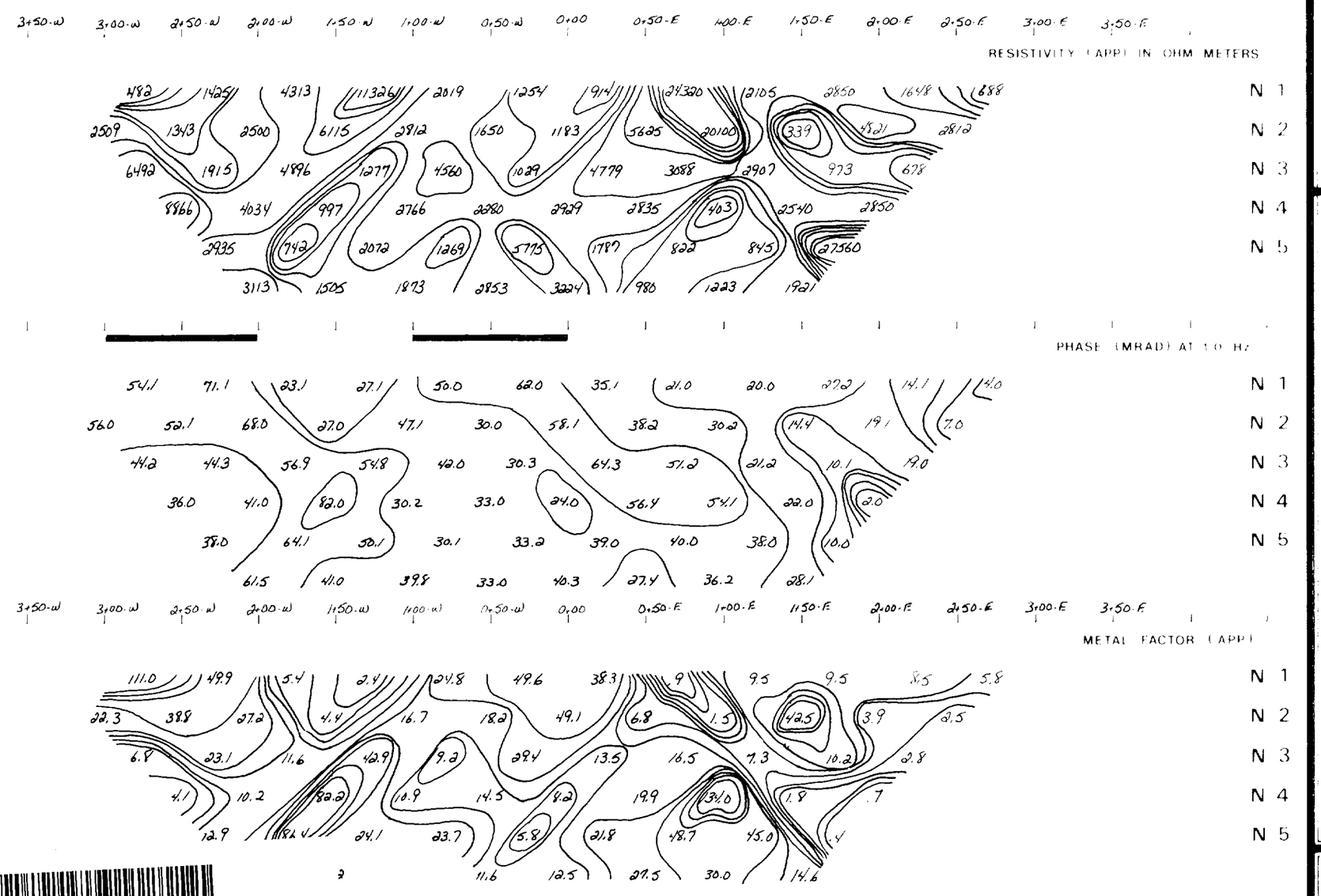
DATE SURVEYED: JULY - 07- 1989

APPROVED: R. Belanger.

OPERATOR: YVES BOUCHER

DATE: July 19- 89

REMY BELANGER INC.



42A03SE0154 63.5540 ZAVITZ

CREEK

INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: I.O.S. ZAVITZ (IRONKRAFT)

Property: ZAVITZ TWP.

CMIP A1-357 63.5540

LINE No.

ELECTRODE CONFIGURATION
(DIPOLE DIPOLE)

- X -- NX -- X -

(V) (I)

PLOTTING POINT - X X 1.0 - AT

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

INSTRUMENT PHOENIX IPV 4 SPECTRAL FREQUENCY 1.0 Hz
IPT 1 CR 2

*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1,1.5,2,3,5,7,5,10)

DATE SURVEYED: July-07- 1989

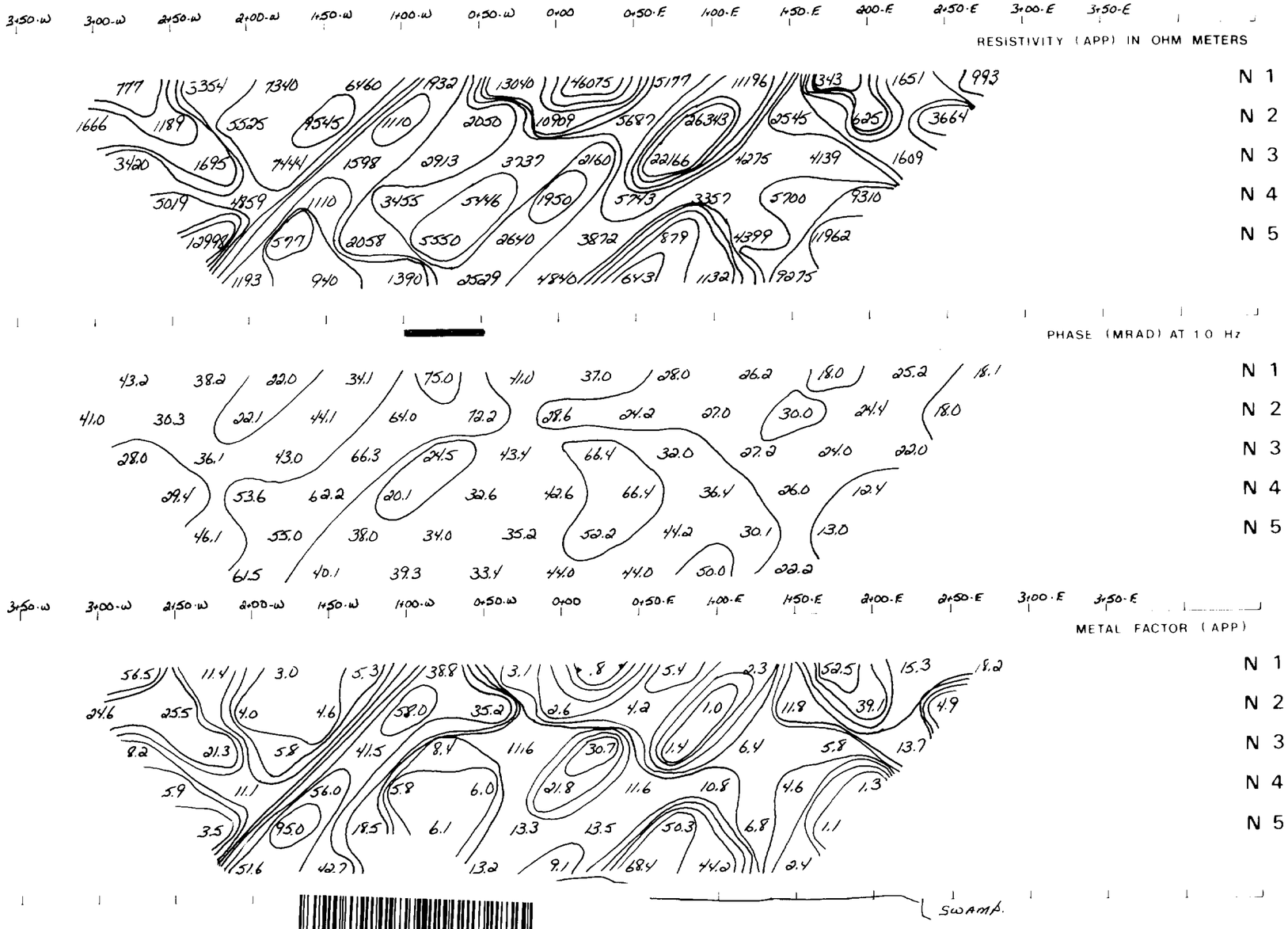
APPROVED: R. Belanger

OPERATOR: REMY BELANGER

DATE: July 19-89

REMY BELANGER GEOPHYSICS

REMY BELANGER INC.



INDUCED POLARIZATION AND RESISTIVITY SURVEY

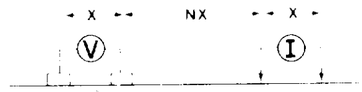
COMPANY: TBS - ZAVITZ I.P. PROGRAM

Property: ZAVITZ TWP.

OMIP 89-32 63.5540

LINE No. 0+50·N

ELECTRODE CONFIGURATION
(DIPOLE DIPOLE)



PLOTTING POINT X X 50·M.

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

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

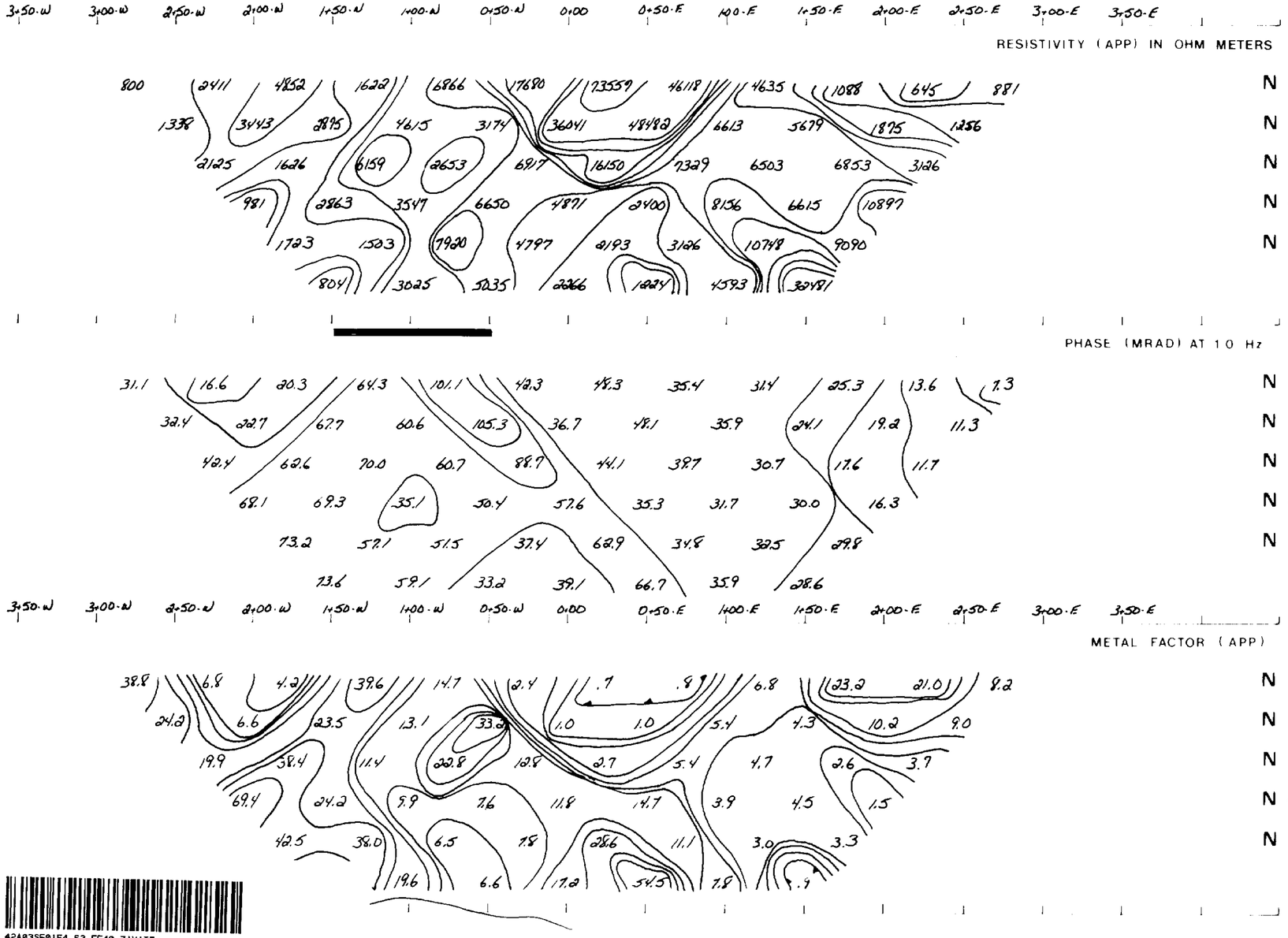
APPROVED: R. Belanger

OPERATOR: REMY BELANGER.

DATE: July 19-89

REMY BELANGER INC.

4N



42A03SE0154 63.5540 ZAVITZ

420

INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: TBS. ZAVITZ I.P. PROGRAM

Property: ZAVITZ TWP.

OMIP 89-32 63.5540

LINE No. 1+00.N

ELECTRODE CONFIGURATION
(DIPOLE DIPOLE)

- X -- NX -- X -

V I

PLOTTING POINT - X X 50M.

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

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

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

DATE SURVEYED: JULY-06- 1989

APPROVED: R. Belanger

OPERATOR: JEAN-GUY DUBÉ

DATE: July 19-89

REMY BELANGER INC.

420

INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: IBS - ZAVITZ I.P. PROGRAM

Property: ZAVITZ Twp.

OMP 89-32 63.5540

LINE No. 1+50 -N

ELECTRODE CONFIGURATION
(DIPOLE - DIPOLE)

- X - - NX - - X -
V I

PLOTTING POINT - X + 50. M.

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE
PROBABLE
POSSIBLE

INSTRUMENT PHOENIX IPV-4 SPECTRAL IPT-1 CR-2 FREQUENCY 1.0 Hz

*NOTE CONTOURS AT LOGARITHMIC INTERVALS (1.1.5.2.3.5.7.5.10)

DATE SURVEYED: July - 06 - 1989

OPERATOR: Yves Bouchard

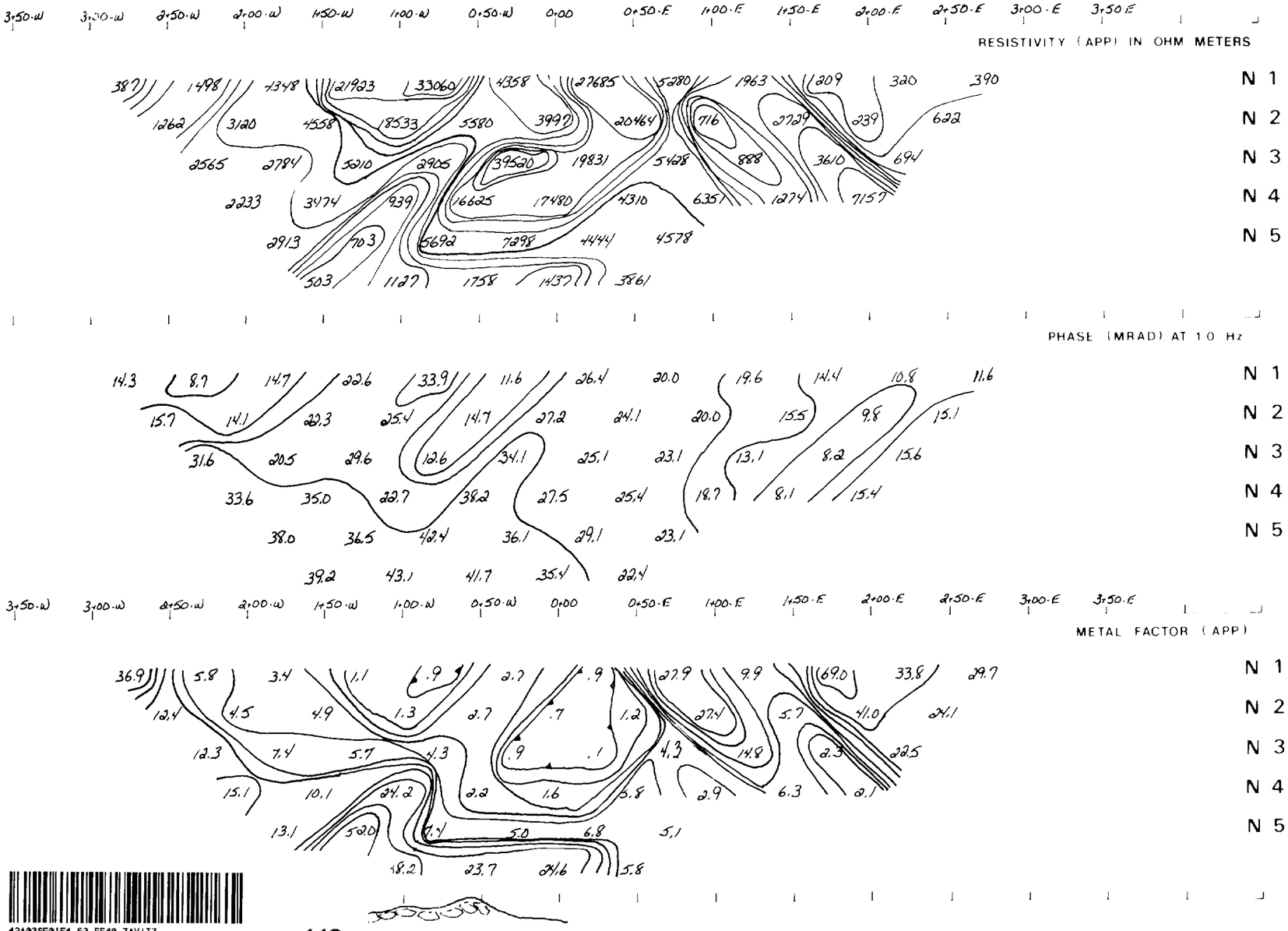
APPROVED: R. Belanger.

DATE: July 19-89

REMY BELANGER INC. GEOPHYSIQUE

REMY BELANGER INC.

42A03SE0154 63.5540 ZAVITZ



42A03SE0154 63.5540 ZAVITZ

440

INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: TBS - ZAVITZ I.P. PROGRAM

Property: ZAVITZ Twp.

OmiP 89-32 63 5540

LINE No. 2+00 · N

ELECTRODE CONFIGURATION
(DIPOLE DIPOLE)

- X -- NX -- X -

(V) (I)

PLOTTING POINT - X X 50 M.

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

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

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

DATE SURVEYED: July 06 - 1989

OPERATOR: JEAN-GUY DUBÉ

APPROVED: R. Belanger.

DATE: July 19-89

REMY BELANGER INC. GEOPHYSICISTS

REMY BELANGER INC.

440

INDUCED POLARIZATION AND RESISTIVITY SURVEY

COMPANY: TBS - ZAVITZ I.P. PROGRAM

Property: ZAVITZ Twp.

OMIP 49-32 63.5540

LINE No. 3+00-N

ELECTRODE CONFIGURATION

(DIPOLE DIPOLE)

- X - - NX - - X -

(V) (I)

PLOTTING POINT - X X JOM

SURFACE PROJECTION OF ANOMALOUS ZONES

DEFINITE

PROBABLE

POSSIBLE

INSTRUMENT PHOENIX IPV-4 SPECTRAL IPT 1 CR-2 FREQUENCY 1.0 Hz

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

DATE SURVEYED: JULY-05- 1989

OPERATOR: JEAN-GUY DUBÉ

APPROVED: R. Belanger

DATE: July 19-89

REMY BELANGER INC.

42A03SE0154 63.5540 ZAVITZ

450

Ministry of Northern Development and Mines

Ontario

Mining Claim

Entered

42A03SE0154 63.5540 ZAVITZ

900

Mining Act

P-1027468

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address: 289 B Pine South, Timmins, Ont.

Date and Time of Staking: Oct. 17/87 AT 8:00 am — P.T. X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim: ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

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. (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

G White

Mining Recorder
PORCUPINE MINING DIVISION

Ontario Ministry of Northern Development and Mines

Mining Claim Entered 25 Checked MB

Mining Act

Claim No. P-1027469

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address	Date and Time of Staking	P.T.
289 B Pine South, Timmins, Ont.	Oct. 17/87 AT 10:15 am	X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim
-ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

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. (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

S. White

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Entered | Checked

Mining Act

Claim No. P-1027470

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address	Date and Time of Staking	P.T.
289 B Pine South, Timmins, Ont.	Oct. 17 /87 AT 12:20 pm	X

Office Use Only — Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim
ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

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. (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

Mining Recorder

MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim Entered 26 Checked BB

Mining Act

Claim No. P-1027471

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address	Date and Time of Staking	P.T.
289 B Pine South, Timmins, Ont.	Oct. 17/87 AT 3:00 pm	X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim
ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

INCLUDING LAND 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. (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

S White

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Entered | Checked

Mining Act

Claim No. P-1027472

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address	Date and Time of Staking	P.T.
289 B Pine South, Timmins, Ont.	Oct. 18 /87 AT 7:05 am	X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim
ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers
Sand, gravel and peat reserved.

EXCLUDING ROAD

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. (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

S White

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Entered | Checked

Mining Act

Claim No. P-1027473

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address	Date and Time of Staking	P.T.
289 B Pine South, Timmins, Ont.	· Oct. 18/87 · AT 9:10 am	X

Office Use Only Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim
ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

, EXCLUDING ROAD

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. (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

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Entered | Checked

Mining Act

Claim No. P-1027474

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address: 289 B Pine South, Timmins, Ont.

Date and Time of Staking: Oct. 18/87 - AT 11:15 am — P.I.: X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim: ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

EXCLUDING ROAD

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. (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

S. White

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Entered 25 | Checked 83

Mining Act

Claim No. P-1027475

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address	Date and Time of Staking	P.T.
289 B Pine South, Timmins, Ont.	Oct. 18 /87 AT 1:30 pm	X

Office Use Only — Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim

. ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

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. (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

S. White

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Entered 25 Checked BB

Mining Act

Claim No. P-1027476

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address: 289 B Pine South, Timmins, Ont.

Date and Time of Staking: Oct. 19 /87 - AT 7:15 am P.T. X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim: ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

EXCLUDING ROAD

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. (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

S. White

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim Entered | Checked

Mining Act

Claim No. P-1027477

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address: 289 B Pine South, Timmins, Ont.

Date and Time of Staking: Oct. 19 /87 · AT 9:20 am — P.T. X

Office Use Only — Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim: -ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

-EXCLUDING ROAD

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. (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

S. White

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Entered KB Checked BB

Mining Act

Claim No. P-1027478

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address: 289 B Pine South, Timmins, Ont.

Date and Time of Staking: Oct. 19 /87 AT 11:30 am P.T. X

Office Use Only — Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim: ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

EXCLUDING ROAD

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. (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

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Entered | Checked

Mining Act

Claim No. P-1027479

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address: 289 B Pine South, Timmins, Ont.

Date and Time of Staking: Oct. 19/87 AT 2:00 pm — P.T. X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim: ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers Sand, gravel and peat reserved.

-EXCLUDING ROAD

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. (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

S. White

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim Entered 28 Checked 88

Mining Act

Claim No. P-1027480

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address: 289 B Pine South, Timmins, Ont.

Date and Time of Staking: Oct. 20 /87 AT 9:00 am — P.T. X

Office Use Only — Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim: ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

INCLUDING LAND 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. (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

S White

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim Entered [illegible] Checked [illegible]

Mining Act

Claim No. P-1027481

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address: 289 B Pine South, Timmins, Ont.

Date and Time of Staking: Oct. 20/87 AT 10:15 am P.T. X

Office Use Only — Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim: -ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

INCLUDING LAND 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. (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

[signature]

Mining Recorder
PORCUPINE MINING DIVISION

Ontario

Ministry of Northern Development and Mines

Mining Claim

Entered BB | Checked BB

Mining Act

Claim No. P-1027482

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Daniel Bienias	M-21289		October 28, 1987

Address: 289 B Pine South, Timmins, Ont.

Date and Time of Staking: Oct. 20 /87 AT 1:00 pm — P.T. X

Office Use Only		
Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim: ZAVITZ TOWNSHIP - M 1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

INCLUDING LAND 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. (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

S White

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Claim No. P-1087850

Recorded in the Name of	Licence No.	Date Recorded
RICHARD BRENT MCALLISTER	M-23728	October 17, 1988

Address	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 Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim

ZAVITZ TOWNSHIP M-1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

File No. R8806.50263

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 assurance of the validity of the claim.

MAY 18 1989

G White

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Claim No.
P-1087851

Recorded in the Name of	Licence No.	Date Recorded
RICHARD BRENT MCALLISTER	M-23728	October 17, 1988

Address
124 Tamarack Street, Timmins, Ontario

Date and Time of Staking — P.T.
Oct. 6/88
AT: 13:00
x

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim
ZAVITZ TOWNSHIP M-1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers
Sand, gravel and peat reserved.

INCLUDNG LAND UNDER WATER

File No.
R8806.50263

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 assurance of the validity of the claim.

MAY 18 1989

Mining Recorder
PORCUPINE MINING DIVISION

Ontario

Ministry of Northern Development and Mines

Mining Claim

Mining Act

Claim No. P-1087852

Recorded in the Name of	Licence No.	Date Recorded
RICHARD BRENT MCALLISTER	M-23728	October 17, 1988

Address: 124 Tamarack Street, Timmins, Ontario

Date and Time of Staking: Oct. 6/88 AT: 15:00 P.T. x

Office Use Only — Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim: ZAVITZ TOWNSHIP M-1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

File No. R8806.50263

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 assurance of the validity of the claim.

MAY 18 1989

S. White

Mining Recorder
PORCUPINE MINING DIVISION

Ontario

Ministry of Northern Development and Mines

Mining Claim

Mining Act

Claim No.
P-1087587

Recorded in the Name of	Licence No.	Date Recorded
RICHARD BRENT MCALLISTER	M-23728	October 17, 1988

Address
124 Tamarack Street, Timmins, Ontario

Date and Time of Staking P.T
Oct. 5/88
AT: 15:00 x

Office Use Only		
Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim
ZAVITZ TOWNSHIP M-1189

Reservations - 400 foot Surface Rights reservation around all lakes and rive
Sand, gravel and peat reserved.

File No.
R8806.50263

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 assurance of the validity of the claim.

MAY 18 1989.

Mining Recorder
PORCUPINE MINING DIVISION

Ontario

Ministry of Northern Development and Mines

Mining Claim

Mining Act

Claim No. P-1087588

Recorded in the Name of	Licence No.	Date Recorded
RICHARD BRENT MCALLISTER	M-23728	October 17, 1988

Address: 124 Tamarack Street, Timmins, Ontario

Date and Time of Staking: Oct. 5/88 AT: 13:00 P.T. x

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim: ZAVITZ TOWNSHIP M-1189

Reservations - 400 foot Surface Rights reservation around all lakes and rive
Sand, gravel and peat reserved.

INCLUDING LAND UNDER WATER

File No. R8806.50263

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 assurance of the validity of the claim.

MAY 18 1989.

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Claim No.
P-1087589

Recorded in the Name of
RICHARD BRENT MCALLISTER

Licence No.
M-23728

Date Recorded
October 17, 1988

Address
124 Tamarack Street, Timmins, Ontario

Date and Time of Staking
Oct. 5/88
AT: 11:00 a.m.

P.T.
x

Office Use Only Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim
ZAVITZ TOWNSHIP M-1189

Reservations - 400 foot Surface Rights reservation around all lakes and river
Sand, gravel and peat reserved.

File No.
R8806.50263

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 assurance of the validity of the claim.

MAY 18 1989

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Claim No. P-1087590

Recorded in the Name of	Licence No.	Date Recorded
RICHARD BRENT MCALLISTER	M-23728	October 17, 1988

Address: 124 Tamarack Street, Timmins, Ontario

Date and Time of Staking: Oct. 5/88 AT: 9:00 a.m. P.T. x

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim: ZAVITZ TOWNSHIP M-1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

File No. R8806.50263

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 assurance of the validity of the claim.

MAY 18 1989

S White

Mining Recorder

PORCUPINE Mining Division

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Claim No. P-1087591

Recorded in the Name of	Licence No.	Date Recorded
RICHARD BRENT MCALLISTER	M-23728	October 17, 1988

Address	Date and Time of Staking	P.T.
124 Tamarack Street, Timmins, Ontario	Oct. 6/88 AT: 9:00 a.m.	x

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim

ZAVITZ TOWNSHIP M-1189

Reservations - 400 foot Surface Rights reservation around all lakes and rivers
Sand, gravel and peat reserved.

File No. R8806.50263

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 assurance of the validity of the claim.

MAY 18 1989

Mining Recorder
PORCUPINE MINING DIVISION

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Claim No.
L 1032812

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Michael W. Peplinski	M 21221	5763	March 25, 1988

Address: P.O. Box 2265, TIMMINS, Ontario P4N 7X8

Date and Time of Staking: March 17, 1988 at 2:40 p.m. P.T. X

Office Use Only — Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim: HINCKS TOWNSHIP (M-223) Former 876609

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

Other reservations under The Mining Act may apply.

File No.
L 1032812

Date	Days Work		Receipt No.
Apr.5/88		(T1) 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. A. Wimmer

Mining Recorder
LARDER LAKE MINING DIVISION

840 (86/4)

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Claim No. L 1032813

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Michael W. Peplinski	M 21221	5763	March 25, 1988

Address: P.O. Box 2265, TIMMINS, Ontario P4N 7X8

Date and Time of Staking: March 17, 1988 at 12:00 noon — P.T. X

Office Use Only — Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim: HINCKS TOWNSHIP (M-223) Former 876610

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

File No. L 1032812

Date	Days Work		Receipt No.
Apr.5/88		(T1) 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 - 5 1989

M. A. Wimmer

Mining Recorder
LARDER LAKE MINING DIVISION

840 (86/4)

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Claim No.
L 1032814

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Michael W. Peplinski	M 21221	5763	March 25, 1988

Address	Date and Time of Staking	P.T.
P.O. Box 2265 TIMMINS, Ontario P4N 7X8	March 17, 1988 at 9:35 a.m.	X

Office Use Only Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim

HINCKS TOWNSHIP (M-223)
Former 876611

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

Other reservations under The Mining Act may apply.

File No.
L 1032812

Date	Days Work		Receipt No.
Apr.5/88		(T1) 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. A. Weirmeir
Mining Recorder
LARDER LAKE MINING DIVISION

840 (86/4)

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Claim No.
L 1032815

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Michael W. Peplinski	M 21221	5763	March 25, 1988

Address	Date and Time of Staking	P.T.
P.O. Box 2265 TIMMINS, Ontario P4N 7X8	March 17, 1988 at 7:15 a.m.	X

Office Use Only Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim

HINCKS TOWNSHIP (M-223)
Former 876612

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

Other reservations under The Mining Act may apply.

File No.
L 1032812

Date	Days Work		Receipt No.
Apr.5/88		(T1) 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

M. A. Weirmeir
Mining Recorder
LARDER LAKE MINING DIVISION

840 (86/4)

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Claim No. L 1032816

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Michael W. Peplinski	M 21221	5763	March 25, 1988

Address: P.O. Box 2265, TIMMINS, Ontario P4N 7X8

Date and Time of Staking: March 16, 1988 at 2:45 p.m. P.T. X

Office Use Only — Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim: HINCKS TOWNSHIP (M-223) Former 876613

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

Other reservations under The Mining Act may apply.

File No. L 1032812

Date	Days Work		Receipt No.
Apr.5/88		(T1) 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. A. Wiinmeier

Mining Recorder
LARDER LAKE MINING DIVISION

840 (86/4)

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Claim No. L 1032817

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Michael W. Peplinski	M 21221	5763	March 25, 1988

Address: P.O. Box 2265, TIMMINS, Ontario P4N 7X8

Date and Time of Staking: March 16, 1988 at 12:30 p.m. P.T. X

Office Use Only	Days Recorded	Balance
Assessment Work Credits Assigned to other Claims		

Description of Claim: HINCKS TOWNSHIP (M-223) Former 876614

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

File No. L 1032812

Date	Days Work		Receipt No.
Apr.5/88		(T1) 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. A. Weinmeier
Mining Recorder
LARDER LAKE MINING DIVISION

840 (86/4)

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Claim No.
L 1032818

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Michael W. Peplinski	M 21221	5763	March 25, 1988

Address	Date and Time of Staking	P.T.
P.O. Box 2265 TIMMINS, Ontario P4N 7X8	March 16, 1988 at 10:15 a.m.	X

Office Use Only Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim

HINCKS TOWNSHIP (M-223)
Former 528782

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

File No.
L 1032812

Date	Days Work		Receipt No.
Apr.5/88		(T1) 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. A. Weirmeir
Mining Recorder
LARDER LAKE MINING DIVISION

840 (86/4)

Ministry of Northern Development and Mines

Ontario

Mining Claim

Mining Act

Claim No.
L 1032819

Recorded in the Name of	Licence No.	Receipt No.	Date Recorded
Michael W. Peplinski	M 21221	5763	March 25, 1988

Address	Date and Time of Staking	P.T.
P.O. Box 2265 TIMMINS, Ontario P4N 7X8	March 16, 1988 at 8:00 a.m.	X

Office Use Only Assessment Work Credits Assigned to other Claims	Days Recorded	Balance

Description of Claim

HINCKS TOWNSHIP (M-223)
Former 876615

Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.

Other reservations under The Mining Act may apply.

File No.
L 1032812

Date	Days Work		Receipt No.
Apr.5/88		(T1) 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. A. Wiermen
Mining Recorder
LARDER LAKE MINING DIVISION

840 (86/4)

AUDIT NUMBER
474286

Entered [illegible] Checked [illegible]

Ministry of Natural Resources
Ontario

Mining Claim
The Mining Act

CLAIM NO.
L 848522

RECORDED IN THE NAME OF	LICENCE NO.	RECEIPT NO.	DATE RECORDED
Nolan Boa	[illegible] 8687	1035	September 10/85

ADDRESS
33 Pine St S, Apt. D, Box 581
Timmins Ont.

DATE AND TIME OF STAKING
August 11/85
at [illegible] 9:00 am

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY	DAYS RECORDED	BALANCE
R. Allerston M13613	1248	2752
R. Allerston	56	2696
	1304	

DESCRIPTION OF CLAIM
ZAVITZ TWP. M 1187
including land under water

RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS. SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO.
848522

DATE	DAYS WORK		RECEIPT NO.
Dec. 16/85	T1	Transfer all interest to Ralph E. Allerston M13613 (12/85)	2404
Sept. 2/86	160	PDAILL Diamond Drilling (performed on 848522) (352/86)	
Sept. 2/86	30	X77-19 Section 77-19 (assays) Approved SEP 23 1986 (354/86)	

This Abstract is a copy of the entries in the Record [illegible] and is to be considered as assurance of the validity of the claim.

JUN 21 1989

Mining Recorder
PORCUPINE MINING DIVISION

AUDIT NUMBER
474287 | Entered AN | Checked CRS

Ontario Natural Resources — Mining Claim — The Mining Act

CLAIM NO. L 852292

RECORDED IN THE NAME OF: ~~Nolan Roa~~

LICENCE NO.: L 8687 | RECEIPT NO.: 1035 | DATE RECORDED: September 10/85

ADDRESS: 33 Pine St S, Apt. D, Box 581 Timmins Ont.

DATE AND TIME OF STAKING: August 11/85 at 10:00 am

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY	DAYS RECORDED	BALANCE

DESCRIPTION OF CLAIM: ZAVITZ TWP; including land under water

RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO. 848522

DATE	DAYS WORK		RECEIPT NO.
Dec. 16/85	T1	Transfer all interest to Ralph E. Allerston M13613 (12/85)	2404
Sept. 2/86	160	PDRILL Diamond Drilling (performed on 848522) (352/86)	
Sept. 2/86	7	X77-19 Core Specimens (performed on 848522) (353/86)	
Sept. 2/86	23	X77-19 Section 77-19 (assays) Approved SEP 23 1986 (354/86)	

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 1987

G. White

MINING RECORDER
PORCUPINE MINING DIVISION

MINING NUMBER
474288 | Entered AN | Checked 023

Ontario Natural Resources — The Mining Act

CLAIM NO
L 853284

RECORDED IN THE NAME OF	LICENCE NO.	RECEIPT NO.	DATE RECORDED
Nolan Boa	H 8687	1035	September 10|85

ADDRESS
33 Pine St S, Apt. D, Box 581
Timmins Ont.

DATE AND TIME OF STAKING
August 11\|85
at 12:00 noon

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY	DAYS RECORDED	BALANCE

DESCRIPTION OF CLAIM
ZAVITZ TWP:
including land under water

RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS. SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO.
848522

DATE	DAYS WORK		RECEIPT NO.
Dec. 16/85		Transfer all interest to Ralph E Allerston M13613 (12/85)	2404
Sept. 2/86	160	Diamond Drilling (performed on 848522) (352/86)	
Sept.2/86	7	Core Specimens (performed on 848522) (353/86)	
Sept. 2/86	23	Section 77-19 (assays) Approved SEP 23 1986 (354/86)	

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

G L White

Mining Recorder
PORCUPINE MINING DIVISION

AUDIT NUMBER
474289 Entered AM Checked [illegible]

Ontario Ministry of Natural Resources — The Mining Act

CLAIM NO
L 853295

RECORDED IN THE NAME OF	LICENCE NO.	RECEIPT NO.	DATE RECORDED
Nolan Boa	H 8697	1035	September 10|85

ADDRESS
33 Pine St S, Apt. D, Box 581
Timmins Ont.

DATE AND TIME OF STAKING
August 11\|85
at 3:00 pm

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY	DAYS RECORDED	BALANCE

DESCRIPTION OF CLAIM
ZAVITZ TWP:
including land under water

RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS. SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO
848522

DATE	DAYS WORK		RECEIPT NO.
Dec. 16/85		Transfer all interest to Ralph E. Allerston M13613 (12/85)	2404
Sept. 2/86	160	Diamond Drilling (performed on 848522) (352/86)	
Sept.2/86	7	Core Specimens (performed on 848522) (353/86)	
Sept. 2/86	23	Section 77-19 (assays) Approved SEP 23 1986 (354/86)	

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

S White

Mining Recorder
PORCUPINE MINING DIVISION

474290 | Entered | Checked

Ontario Natural Resources — The Mining Act

CLAIM NO L 853286

RECORDED IN THE NAME OF: ~~Nolan Bon~~

LICENCE NO.: M 8687 | RECEIPT NO.: 1035 | DATE RECORDED: September 10/85

ADDRESS: 33 Pine St S, Apt. D, Box 581 ~~Timmins Ont.~~

DATE AND TIME OF STAKING: August 12/85 at 9:00 a.m.

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY	DAYS RECORDED	BALANCE

DESCRIPTION OF CLAIM: ZAVITZ TWP.; including land under water

RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS. SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO. 848522

DATE	DAYS WORK		RECEIPT NO.
Dec. 16/85		Transfer all interest to Ralph E. Allerston M13613 (12/85)	2404
Sept. 2/86	160	Diamond Drilling (performed on 848522) (352/86)	
Sept.2/86	7	Core Specimens (performed on 848522) (353/86)	
Sept. 2/86	23	Section 77-19 (assays) Approved SEP 23 1986 (354/86)	

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

RECORDER NUMBER
474291 | Entered AN | Checked

Ontario Natural Resources — The Mining Act

CLAIM NO. L 853267

RECORDED IN THE NAME OF: Nolan Boa
LICENCE NO.: K 8627
RECEIPT NO.: 1035
DATE RECORDED: September 10/85

ADDRESS: 33 Pine St S, Apt. D, Box 581
Timmins Ont.

DATE AND TIME OF STAKING: August 12/85 at 11:00 am

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY | DAYS RECORDED | BALANCE

DESCRIPTION OF CLAIM
ZAVITZ TWP;
including land under water

RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO. 848522

DATE	DAYS WORK		RECEIPT NO.
Dec. 16/85		Transfer all interest to Ralph E. Allerston M13613 (12/85)	2404
Sept. 2/86	160	Diamond Drilling (performed on 848522) (352/86)	
Sept.2/86	7	Core Specimens (performed on 848522) (353/86)	
Sept. 2/86	33	Section 77-19 (assays) Approved SEP 23 1986 (354/86)	

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

G White

PORCUPINE

AUDIT NUMBER 474292 | Entered AN | Checked KH

Ontario Natural Resources — The Mining Act

CLAIM NO. 1 [illegible]

RECORDED IN THE NAME OF: ~~Nolan Bon~~

LICENCE NO.: ~~1~~ 8687 | RECEIPT NO.: 1035 | DATE RECORDED: ~~September 10/85~~

ADDRESS: 33 Pine St S, Apt. D, Box 581 ~~Timmins Ont.~~

DATE AND TIME OF STAKING: August 12/85 at 1:00 p.m.

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY	DAYS RECORDED	BALANCE

DESCRIPTION OF CLAIM: ZAVITZ TWP including land under water

RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS. SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO. 848522

DATE	DAYS WORK		RECEIPT NO.
Dec. 16/85		Transfer all interest to Ralph E. Allerston M13613 (12/85)	2404
Sept. 2/86	144	Diamond Drilling (performed on 848522) (352/86)	
Sept.2/86	7	Core Specimens (performed on 848522) (353/86)	
Sept. 2/86	25	Section 77-19 (assays) Approved SEP 23 1986 (354/86)	

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 16 1990~~

~~Mining Recorder~~

PORCUPINE MINING DIVISION

ROLL NUMBER 474293 Entered Checked

Ontario Ministry of Natural Resources — The Mining Act

CLAIM NO L 853220

RECORDED IN THE NAME OF: Nolan Boa
LICENCE NO.: H 8687
RECEIPT NO.: 1035
DATE RECORDED: September 10|85
ADDRESS: 33 Pine St S, Apt. D, Box 581, Timmins Ont.
DATE AND TIME OF STAKING: August 12|85 at 3:00 pm

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY	DAYS RECORDED	BALANCE

DESCRIPTION OF CLAIM: ZAVITZ TWP: M13613 including land under water

RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO 848522

DATE	DAYS WORK		RECEIPT NO.
Dec. 16/85	T1 M40	Transfer all interest to Ralph E. Allerston M13613 (12/85)	2404
Sept. 2/86	144	DRILL Diamond Drilling (performed on 848522) (352/86)	
Sept.2/86	7	X77-19 Core Specimens (performed on 848522) (353/86)	

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

AUST. NUMBER
474294 Entered AN Checked

Ontario Ministry of Natural Resources — Mining Claim — The Mining Act

CLAIM NO.
L 853300

RECORDED IN THE NAME OF	LICENCE NO.	RECEIPT NO.	DATE RECORDED
Nolan Roa	** 9687	1035	September 10|85

ADDRESS
33 Pine St S, Apt. D, Box 581
Timmins Ont.

DATE AND TIME OF STAKING
August 12\|85
at 5:00 p.m.

ASSESSMENT WORK CREDITS ASSIGNED TO OTHER CLAIMS

OFFICE USE ONLY	DAYS RECORDED	BALANCE

DESCRIPTION OF CLAIM
ZAVITZ TWP
including land under water

RESERVATIONS — 400 FOOT SURFACE RIGHTS RESERVATION AROUND ALL LAKES AND RIVERS. SAND AND GRAVEL RESERVED. PEAT RESERVED.

FILE NO.
848522

DATE	DAYS WORK		RECEIPT NO.
Dec. 16/85		Transfer all interest to Ralph E. Allerston M13613 (12/85)	2404
Sept. 2/86	160	Diamond Drilling (performed on 848522) (352/86)	
Sept.2/86	7	Core Specimens (performed on 848522) (353/86)	
Sept. 2/86	33	Section 77-19 (assays) Approved SEP 23 1986 (354/86)	

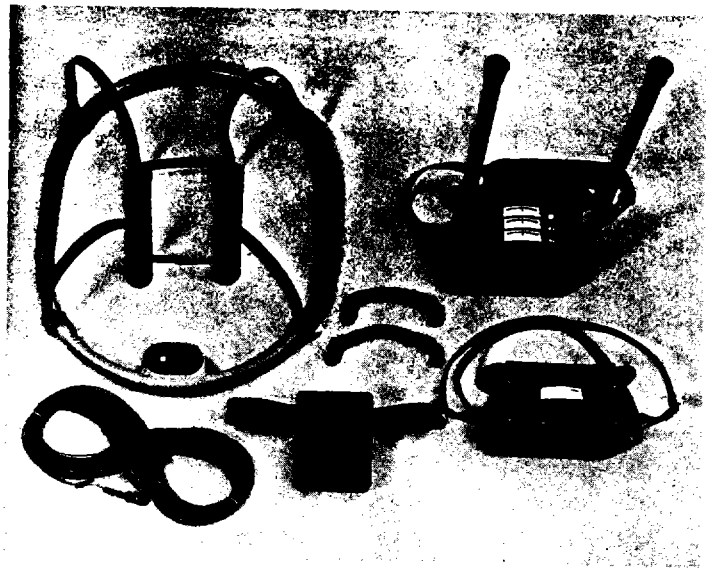
This Abstract is a copy of the entries in the Record Book and is not to be considered as assurance of the validity of the claim.

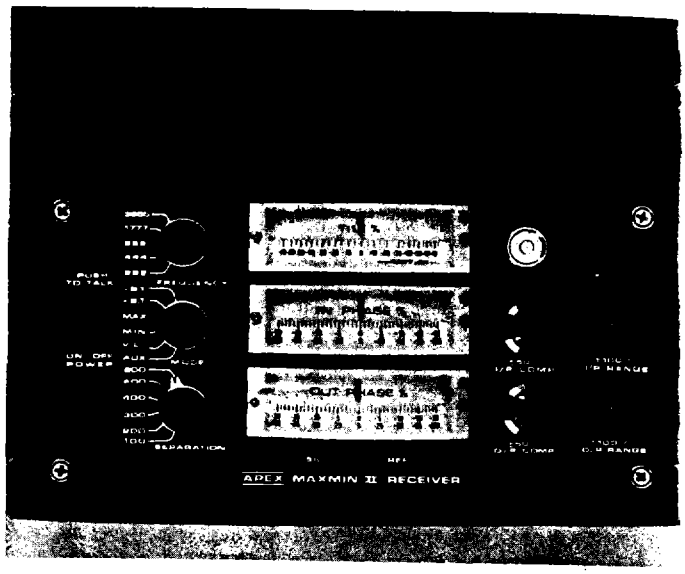
MAY 18 1989

Mining Recorder
PORCUPINE MINING DIVISION

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 reference cable.
- MIN: Transmitter 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 & 250 m (MMII) or 100, 200, 300, 400, 600 and 800 ft. (MMIIF).
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 nulling or compensation necessary.
- Tilt angle and null in 90 mm edgewise meters in V.L. mode.

Scale Ranges:

	In-Phase:	±20%, ±100% by push-button switch.
NOW ALSO ±4% QUADRATURE FULL SCALE.	Quadrature:	±20%, ±100% by push-button switch.
	Tilt:	±75% slope.
	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 cc separation used.

Transmitter Output:
- 222 Hz : 220 Atm^2
- 444 Hz : 200 Atm^2
- 888 Hz : 120 Atm^2
- 1777 Hz : 60 Atm^2
- 3555 Hz : 30 Atm^2

Receiver Batteries: 9V trans. radio type batteries (4 Life: approx. 35 hrs. continuous d ty (alkaline, 0.5 Ah), less in col weather.

Transmitter Batteries: 12V 6 Ah Gel-type rechargeabl battery. (Charger supplied

Reference Cable: Light weight 2-conductor teflor cable for minimum friction. Unshield ed. All reference cables optiona 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: 6 kg (13 lbs.)

Transmitter Weight: 13 kg (29 lbs.)

Shipping Weight: Typically 60 kg (135 lbs.), depend ing on quantities of reference cable and batteries included Shipped in two field/shipping cases

Specifications subject to change without notificatior

APEX PARAMETRICS LIMITED
BOX 818, R.R. NO.1, UXBRIDGE, ONTARIO, CANADA L0C 1K0

Phone: (416) 640-6102
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 instrumentation.
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	Easting	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	nil	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 S	0+30 E	nil	nil	49	34	41
14218	1+30 S	0+29 E	nil	nil	68	39	52
14219	1+10 S	0+08 W	nil	nil	85	41	45
14220	1+55 S	0+02 W	nil	nil	144	36	56
14221	7+05 S	8+19 W	nil	nil	53	50	46

CHANNEL SAMPLE LOCATIONS

Sample Number	Length (m)	Trench 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 fault zone
16927	0.5	6	syenite dykelet

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Certificate of Analysis

Certificate No. 75702 Date July 28, 1989

Received July 24, 1989 21 Grab Samples

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

Proj. #JBS

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	Nil	43	27	23
14205	Nil	Nil	73	39	29
14206	Nil	Nil	131	51	75
14207	Nil	Nil	151	28	56
14208	Nil/Nil	Nil	116	25	38
14209	Nil	Nil	114	39	50
14210	Nil	Nil	89	54	57
14211	Nil	Nil	67	28	30
14212	Nil	Nil	156	45	53
14213	Nil	Nil	155	36	77
14214	Nil	0.4	774	70	134
14215	Nil	Nil	78	48	56
14216	Nil/Nil	Nil	106	40	73
14217	Nil	Nil	49	34	41
14218	Nil	Nil	68	39	52
14219	Nil	Nil	85	41	45
14220	Nil	Nil	144	36	56
14221	Nil	Nil	53	50	46

Per G. Lebel

G. Lebel - Manager /ns

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. 76093 Date Sept. 11, 1989

Received Sept. 5, 1989 28 Rock Samples

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

File #92-0766

SAMPLE NO.	GOLD Oz/ton	SILVER Oz/ton	COPPER %	ZINC %	NICKEL %
16901	0.010/0.012	Trace	0.02	0.01	0.01
16902	Nil	Nil	0.01	0.005	0.005
16903	Nil	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	Nil	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	Nil	Nil	0.03	0.02	0.01
16913	Nil	0.01	0.04	0.03	0.02
16914	Nil	0.03	0.07	0.02	0.02
16915	Nil	0.02	0.03	0.01	0.01
16916	Nil	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
16919	Nil	Nil	0.02	0.02	0.01
16920	Nil	0.01	0.01	0.01	

Con't.....

Per G. Lebel

G. Lebel - Manager /ns

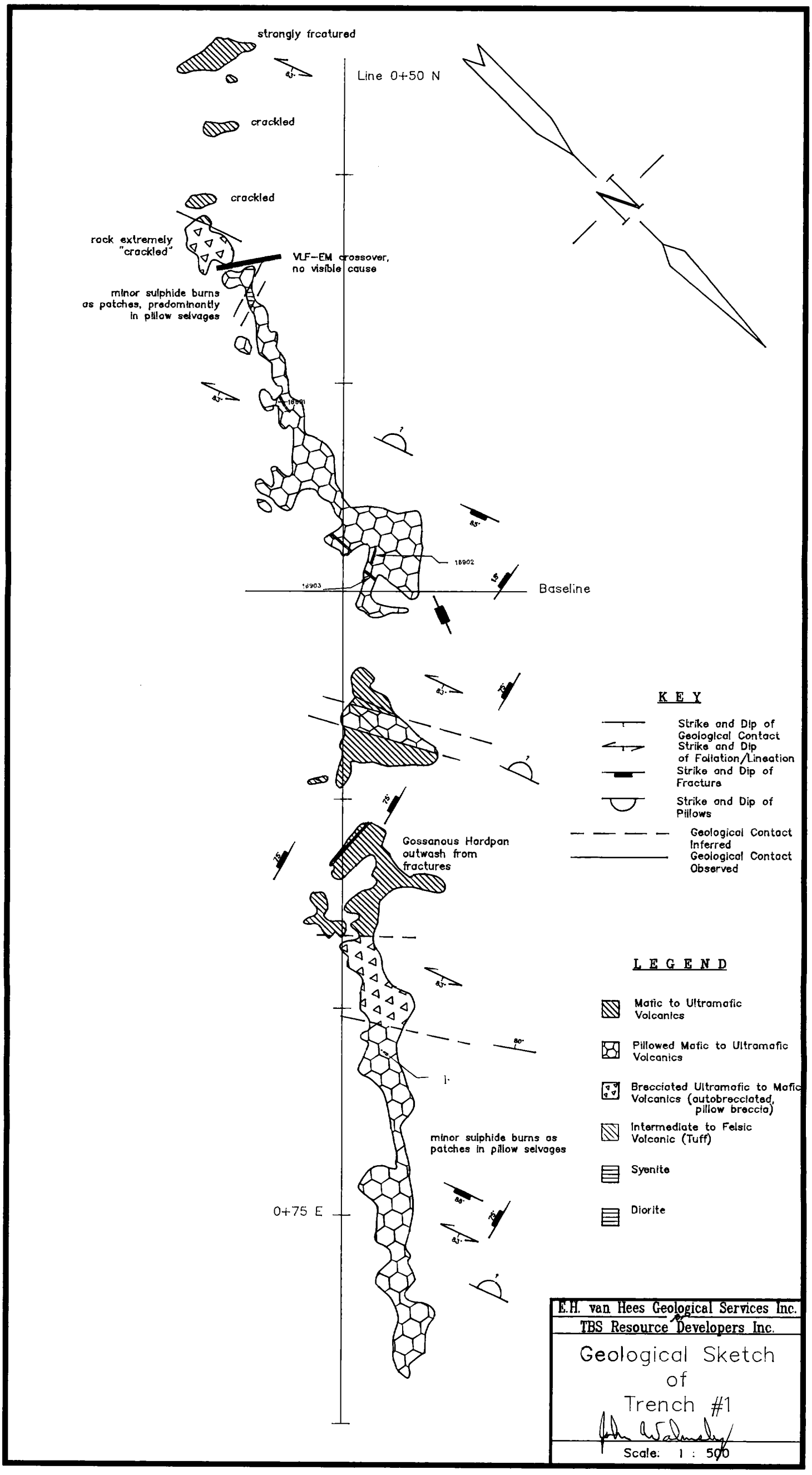
P.O. Box 10, Swastika, Ontario P0K 1T0

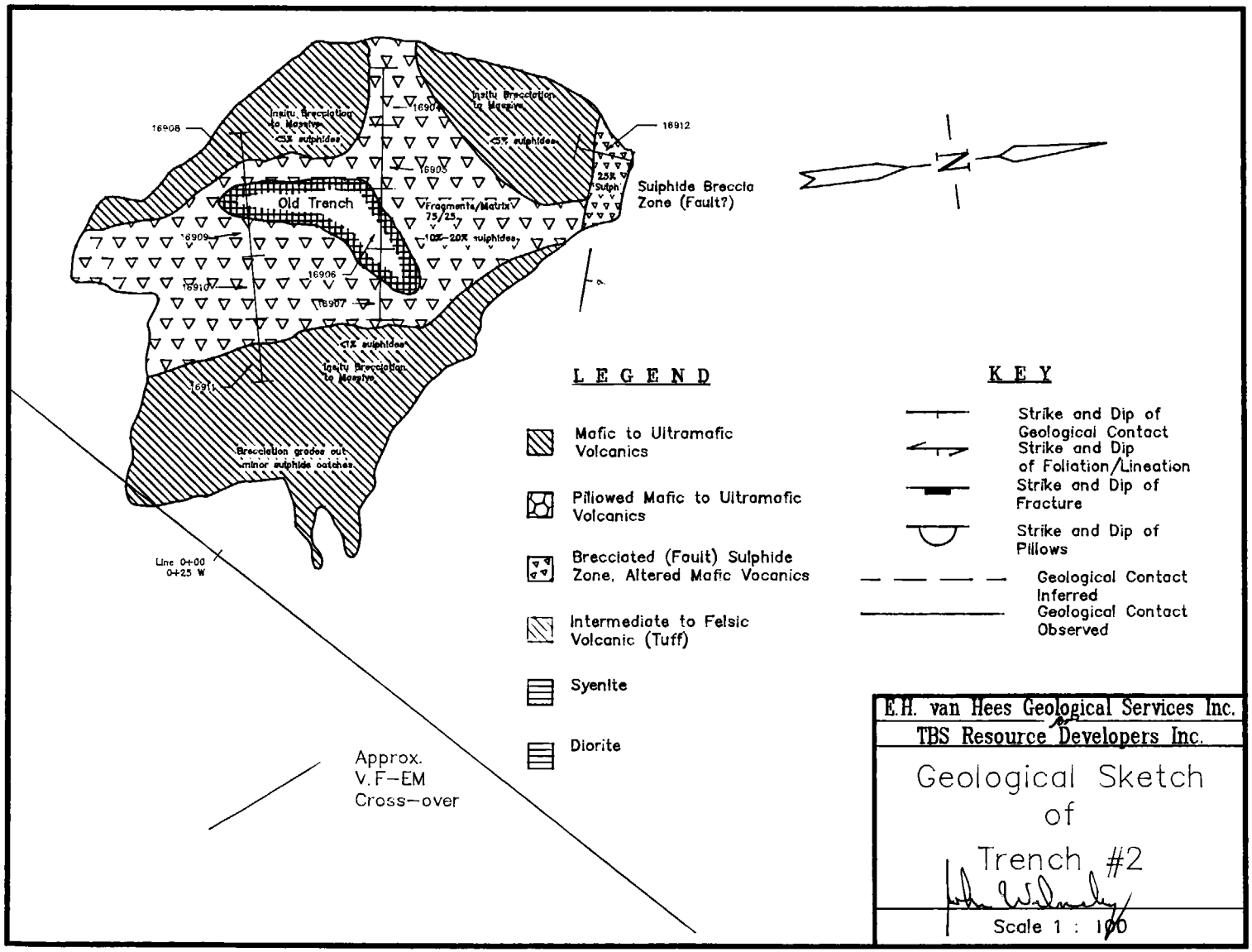
Swastika Laboratories Certificate No. 76093 Page -2-

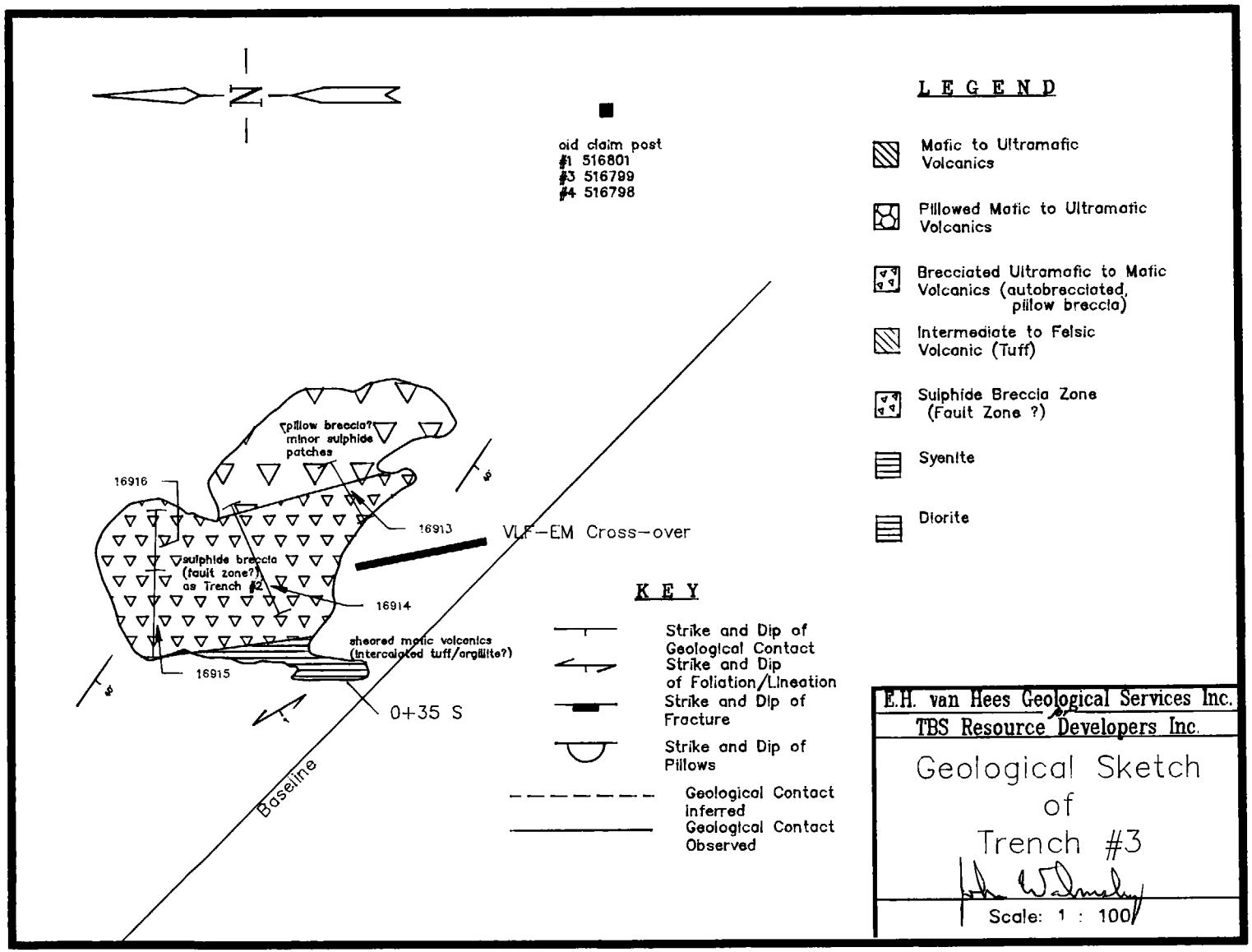
SAMPLE NO.	GOLD Oz/ton	SILVER Oz/ton	COPPER %	ZINC %	NICKEL %
16921	0.002/Nil	Nil	0.005	0.01	0.01
16922	Nil	Nil	0.01	0.005	0.01
16923	Nil	Nil	0.005	0.01	0.005
16924	Nil	Nil	0.01	0.005	0.01
16925	Nil	Trace	0.01	0.005	0.005
16926A	Nil	Nil	0.005	0.01	0.01
16926B	Nil	Nil	0.01	0.01	0.01
16927	Nil	Nil	0.01	0.01	0.01

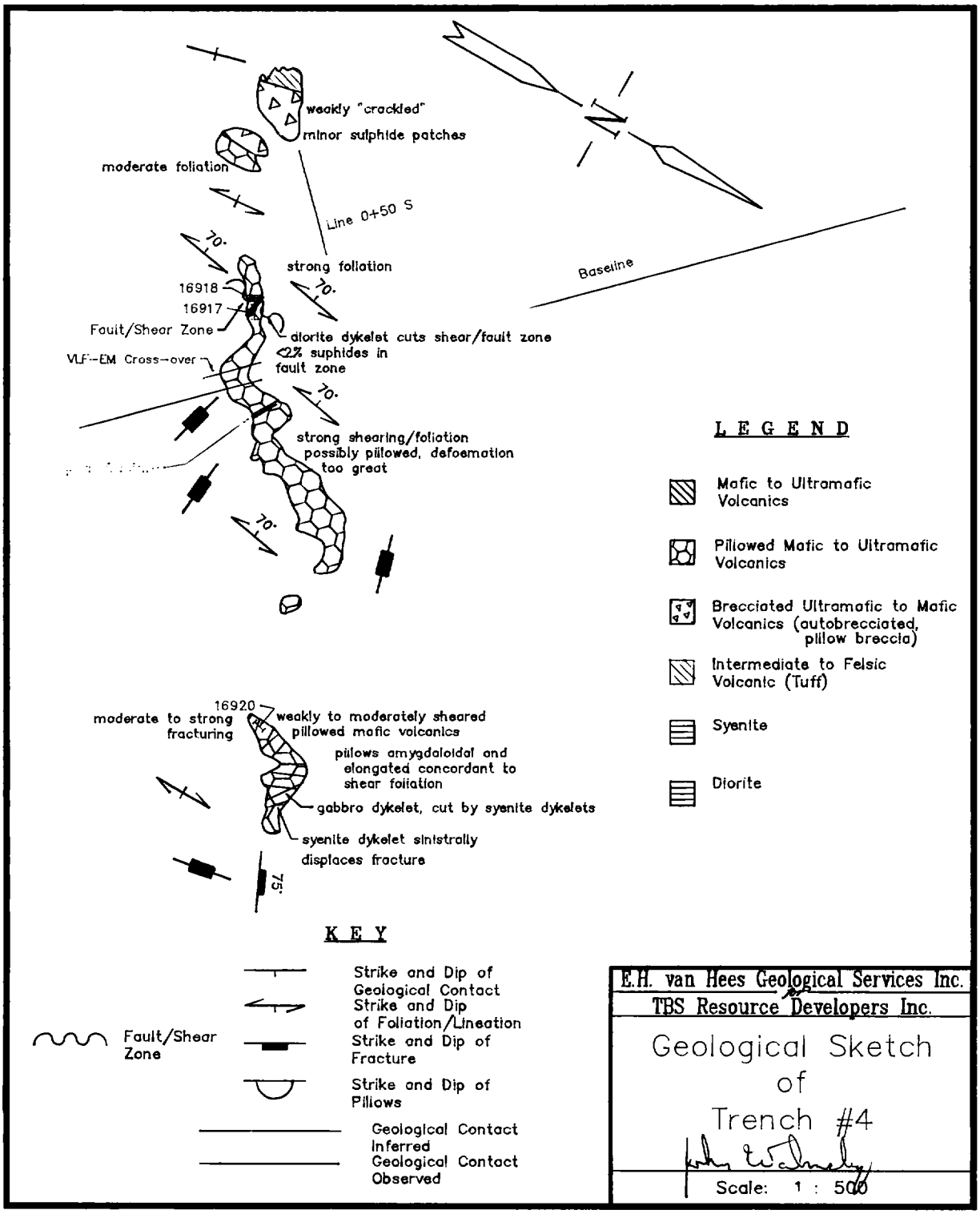
Per G. Tebel - Manager

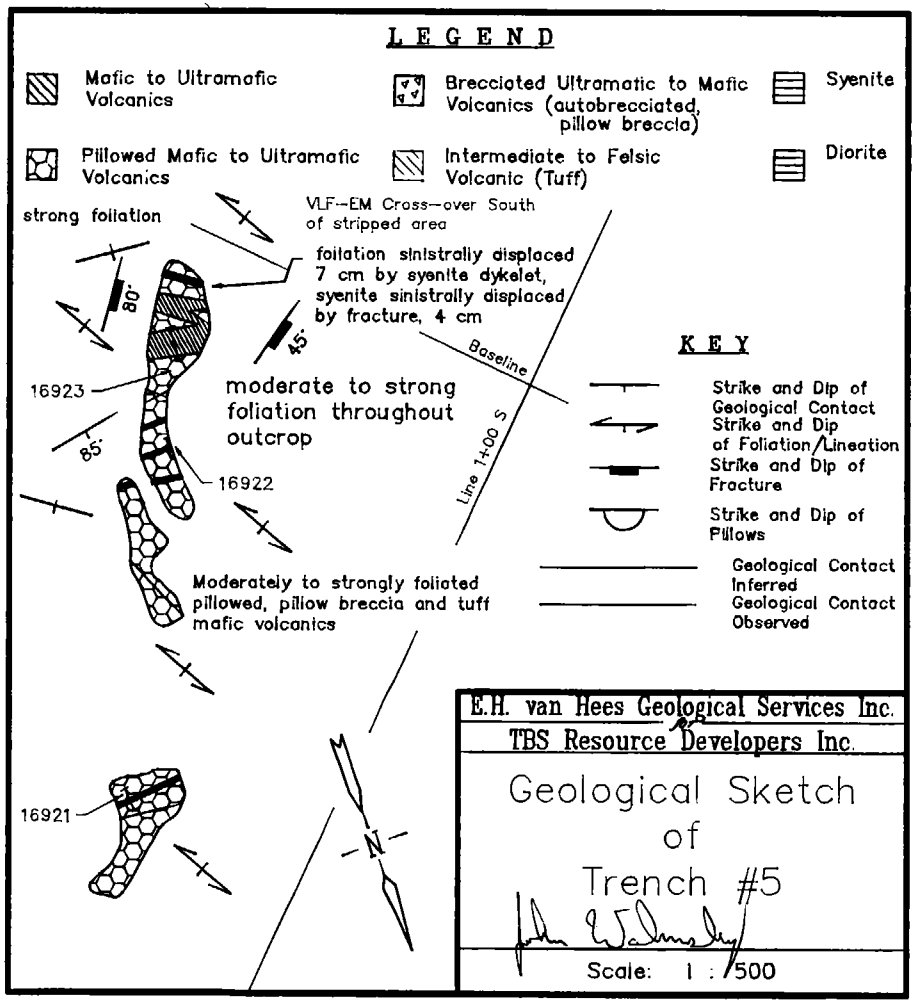
PROPERTY MAPS
and
TRENCH SKETCHES

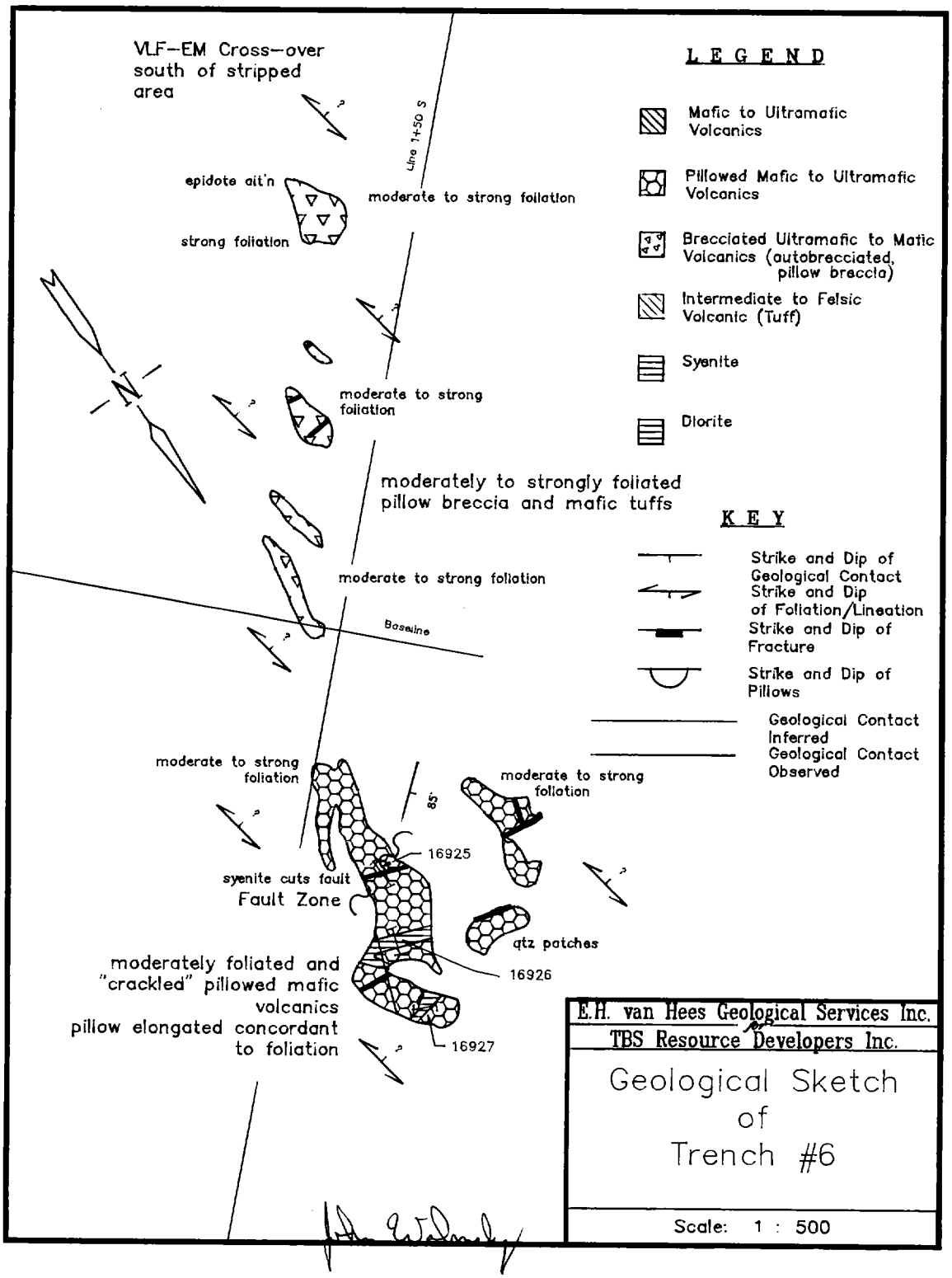

strongly fractured
Line 0+50 N
crackled
crackled
rock extremely "crackled"
VLF-EM crossover, no visible cause
minor sulphide burns as patches, predominantly in pillow selvages
18901
18902
18903
Baseline
Gossanous Hardpan outwash from fractures
minor sulphide burns as patches in pillow selvages
0+75 E
KEY
Strike and Dip of Geological Contact
Strike and Dip of Foliation/Lineation
Strike and Dip of Fracture
Strike and Dip of Pillows
Geological Contact Inferred
Geological Contact Observed
LEGEND
Mafic to Ultramafic Volcanics
Pillowed Mafic to Ultramafic Volcanics
Brecciated Ultramafic to Mafic Volcanics (autobrecciated, pillow breccia)
Intermediate to Felsic Volcanic (Tuff)
Syenite
Diorite
E.H. van Hees Geological Services Inc.
for
TBS Resource Developers Inc.
Geological Sketch of Trench #1
Scale: 1 : 500


16908
Insitu Brecciation to Massive
<5% sulphides
16904
Insitu Brecciation to Massive
<5% sulphides
16912
25% Sulph.
Sulphide Breccia Zone (Fault?)
16905
Old Trench
V.Fragments/Matrix 75/25
10%-20% sulphides
16909
16906
16910
16907
<1% sulphides
Insitu Brecciation to Massive
16911
Brecciation grades out minor sulphide patches
Line 0+00 0+25 W
Approx. V.F-EM Cross-over
LEGEND
Mafic to Ultramafic Volcanics
Pillowed Mafic to Ultramafic Volcanics
Brecciated (Fault) Sulphide Zone, Altered Mafic Vocanics
Intermediate to Felsic Volcanic (Tuff)
Syenite
Diorite
KEY
Strike and Dip of Geological Contact
Strike and Dip of Foliation/Lineation
Strike and Dip of Fracture
Strike and Dip of Pillows
Geological Contact Inferred
Geological Contact Observed
E.H. van Hees Geological Services Inc.
TBS Resource for Developers Inc.
Geological Sketch of Trench #2
Scale 1 : 100


N
oid claim post
#1 516801
#3 516799
#4 516798
LEGEND
Mafic to Ultramafic Volcanics
Pillowed Mafic to Ultramafic Volcanics
Brecciated Ultramafic to Mafic Volcanics (autobrecciated, pillow breccia)
Intermediate to Felsic Volcanic (Tuff)
Sulphide Breccia Zone (Fault Zone ?)
Syenite
Diorite
(pillow breccia? minor sulphide patches
16916
16913
VLF-EM Cross-over
sulphide breccia (fault zone?) as Trench #2
16914
sheared mafic volcanics (intercalated tuff/argillite?)
16915
0+35 S
Baseline
KEY
Strike and Dip of Geological Contact
Strike and Dip of Foliation/Lineation
Strike and Dip of Fracture
Strike and Dip of Pillows
Geological Contact Inferred
Geological Contact Observed
E.H. van Hees Geological Services Inc.
TBS Resource Developers Inc.
Geological Sketch of Trench #3
Scale: 1 : 100


weakly "crackled"
minor sulphide patches
moderate foliation
Line 0+50 S
70.
strong foliation
70.
16918
16917
Fault/Shear Zone
diorite dykelet cuts shear/fault zone
<2% suphides in fault zone
VLF-EM Cross-over
70.
strong shearing/foliation possibly pillowed, defoemation too great
70.
Baseline
N
16920
moderate to strong fracturing
weakly to moderately sheared pillowed mafic volcanics
pillows amygdaloidal and elongated concordant to shear foliation
gabbro dykelet, cut by syenite dykelets
syenite dykelet sinistrally displaces fracture
75
LEGEND
Mafic to Ultramafic Volcanics
Pillowed Mafic to Ultramafic Volcanics
Brecciated Ultramafic to Mafic Volcanics (autobrecciated, pillow breccia)
Intermediate to Felsic Volcanic (Tuff)
Syenite
Diorite
KEY
Strike and Dip of Geological Contact
Strike and Dip of Foliation/Lineation
Fault/Shear Zone
Strike and Dip of Fracture
Strike and Dip of Pillows
Geological Contact Inferred
Geological Contact Observed
E.H. van Hees Geological Services Inc.
for
TBS Resource Developers Inc.
Geological Sketch of Trench #4
Scale: 1 : 500


LEGEND
Mafic to Ultramafic Volcanics
Brecciated Ultramatic to Mafic Volcanics (autobrecciated, pillow breccia)
Syenite
Pillowed Mafic to Ultramafic Volcanics
Intermediate to Felsic Volcanic (Tuff)
Diorite
strong foliation
VLF-EM Cross-over South of stripped area
foliation sinistrally displaced 7 cm by syenite dykelet, syenite sinistrally displaced by fracture, 4 cm
80°
45°
Baseline
16923
moderate to strong foliation throughout outcrop
85°
16922
Line 1+00 S
KEY
Strike and Dip of Geological Contact
Strike and Dip of Foliation/Lineation
Strike and Dip of Fracture
Strike and Dip of Pillows
Geological Contact Inferred
Geological Contact Observed
Moderately to strongly foliated pillowed, pillow breccia and tuff mafic volcanics
16921
N
E.H. van Hees Geological Services Inc.
TBS Resource Developers Inc.
Geological Sketch of Trench #5
Scale: 1 : 500


VLF-EM Cross-over south of stripped area
Line 1+50 S
epidote alt'n
strong foliation
moderate to strong foliation
moderate to strong foliation
moderately to strongly foliated pillow breccia and mafic tuffs
moderate to strong foliation
Baseline
moderate to strong foliation
moderate to strong foliation
85°
16925
syenite cuts fault
Fault Zone
qtz patches
16926
moderately foliated and "crackled" pillowed mafic volcanics
pillow elongated concordant to foliation
16927
N
LEGEND
Mafic to Ultramafic Volcanics
Pillowed Mafic to Ultramafic Volcanics
Brecciated Ultramafic to Matic Volcanics (autobrecciated, pillow breccia)
Intermediate to Felsic Volcanic (Tuff)
Syenite
Diorite
KEY
Strike and Dip of Geological Contact
Strike and Dip of Foliation/Lineation
Strike and Dip of Fracture
Strike and Dip of Pillows
Geological Contact Inferred
Geological Contact Observed
E.H. van Hees Geological Services Inc.
for
TBS Resource Developers Inc.
Geological Sketch of Trench #6
Scale: 1 : 500