

# GEOLOGICAL AND GEOPHYSICAL INVESTIGATIONS OF THE JASPERSON PROPERTY, HESS TOWNSHIP, ONTARIO

AUGUST, 1982

SP. GEOLIGICAL

### RECEIVED

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MINING LANDS SECTION

Prepared By: Avrom E. Howard, B.Sc.
John E. Buckle, B.Sc.

#### INTRODUCTION

The Jasperson Property consists of eight claims located in the north-central sector of Hess Township, approximately 20 miles north-east of the town of Cartier, in the Sudbury District. addition, it is situated 1.5 miles east of the Geneva Lake Mine, a former producer of zinc and lead, and in a regional sense is onstrike with it. The property includes three patented claims (S6631-3), two claims staked in 1980 (S600759-60), and three staked in July 1982 (469265-7). In order to fully evaluate the economic mineral potential of this property, a geologist and a geophysicist were commissioned to carry out geological mapping and a self-potential ("SP") survey respectively, across the prop-In addition, a VLF survey was conducted as well. exploration efforts, which were integrated with the current one, include a pedogeochemical and SP survey conducted over parts of the property.

#### ACCESS, TOPOGRAPHY

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The property lies just north of and straddles an old logging road travelling east from highway 144, and road access is available during the snow-free months only, as the road is not plowed. The topography of the area is characterized by a few low-lying ridges which occur in a north-east direction and are steep in places. In addition, there are a number of similarly-oriented hills composed of glacial debris, and a number of isolated rocky hills of various lithologies. Groundcover generally consists of mixed forest with alder swamp and spruce bog occurring locally. Lakes are typically shallow and marshy, with one in the west part of the property having been almost completely drained, resulting in a flat, wet, grassy field. The creek which runs through and north from this marsh connects directly with the tailings pond of the Geneva Lake Mine about a mile upstream, and is therefore, quite contaminated and rusty.

#### Self-Potential Survey

The self-potential equipment used in this survey consisted of two porous porceline pots containing saturated solutions of copper sulphate as electrode probes, a reel containing twenty chains of sixteen ohm wire and a voltmeter with a sensitivity of + one millivolt.

The gradient array was employed to sample voltages along the survey lines at 1/2 chain intervals with reference to an established zero base station.

The procedure is to determine the voltage difference between the porous pots, if any, at the base station, then advance the pot given the positive polarity along the line recording the voltage difference between it and the second pot which remains stationary as a zero reference.

#### Very Low Frequency Electro-magnetic Survey

The VLF survey was conducted with a Crone RADEM VLF receiver. The transmitter at Seattle, Washington (NLK) at a frequency of 24.8 KHz was used.

Dip angle and field strength readings were taken at one chain intervals on the grid.

#### Survey Results and Interpretation

The accompanying equipotential contour map indicates eight zones of interest in the survey area. Contours of greater than negative fifty millivolts are considered significant.

#### Anomaly "A"

Anomaly is located on lines 12 and 15 west between 18 and 25 north. It is the strongest response of the survey, having a maximum value of -236 millivolts. The strike appears to be north west, however the data is insufficient to positively establish the strike direction. The trend of the response terminates sharply to the east, possibly being truncated by faulting. The shape indicates a rather localized concentration of sulphide mineralization.

The anoraly lies within a Nipissing Diabase dyke which often carry disseminated pyrite, pyrrhotite and magnetite suggesting that a concentration of these sulphides may be the source. The SP values would indicate a high percentage of metallic diserals, however, the lack of a significant VLF response a tablished that the source is not a conductor and therefore must be disseminated.

#### Anomaly "B"

Anomaly 'B' is a broad and discontinuous zone striking approximately east-west between 25 and 30 north from 15 east to 15 west. The response increases in size and strength from east to west. The values are significant enough to suggest a metalic sulphide or graphitic source. However, again the lack of a VLF conductor indicates a disseminated source. The geology of the anomaly area is felsic intrusives.

#### Anomaly "C"

This anomaly is in the showing "B" area mentioned in previous reports on the property. The best response is located between 7 and 8 north on line 12 west. The SP anomaly is isolated and cannot readily be tied in with other responses. A strike length and direction is difficult to establish, possibly due to the complexity of the local geology. This anomaly is undoubtedly due to the sulphide-bearing metasediments found in the old trenches.

#### Anomaly "D"

Anomaly 'D' is located in the area of showing 'A'. This response is similar to anomaly 'C' and although there is no indication of a trend joining these responses it seems apparent that they are directly related.

#### Anomaly "E"

Anomaly 'E' is a broad trend extending across the survey grid from 18 W to 18 E. The anomaly is locally stronger on lines 15 W, 3 E and 9 E. It would seem to be a formational trend, however the anomaly lies within massive felsic intrusives. It should be noted that the response of line 15 W at the baseline is the strongest, having millivolt values greater than -150. The geology of the local area of this response indicates at least two geological contacts. It is recommended that this area of Anomaly 'E' be considered for further investigation.

#### Anomaly "F"

Although Anomaly 'F' appears to be isolated it is suggested that this response is related to the Nipissing diabase dyke of anomaly 'A'. It is of particular interest because it is on or near the contact between the diabase and the felsic intrusives. There is also a correlation with a weak VLF response in this area.

#### Anomaly "G"

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Anomaly 'G' on line 8 W at 15 N is a small, isolated, weak to moderate SP response. The geology is felsic intrusives, where mapped, however there is little outcrop in the immediate.

area of the anomaly. The VLF field strength supports the validity of this anomaly even though there is no distinct conductor axis indicated.

#### Anomaly "H"

This anomaly is isolated and weak. Its significance lies in its proximity to an SP positive. It is difficult to correlate this response to anomalous trends, however it would appear to be a valid anomaly.

#### Anomaly "I"

Anomaly 'I' is a moderate SP response. It is isolated and of short strike length. The VLF field strength response indicates that this anomaly is significant. The VLF dip angle does not show it to be a good conductor. The source is beyond speculation as there is very little outcrop close to this response. The rock type is assumed to be felsic intrusives in this area. Further investigation is warranted.

#### VLF Conductors

Two major conductor axes have been determined. Both responses have been determined. Both responses lie within wet and swampy regions of the survey area. Their source is unlikely to be anything other than conductive swamp sediments. Other weak VLF responses have been indicated on the accompanying VLF dip angle map. VLF responses have been previously mentioned when they were applicable to the self-potential interpretation.

Straddling the eastern tip of the Benny Greenstone Belt, one of the smaller volcano-sedimentary complexes in the Superior Structural Province, the area within the Jasperson Property is characterized by an assemblage of dominantly intermediate volcanic and sedimentary units which are repeatedly intruded by granitic rocks in increasing proportions towards the north and east. In addition, there are three generations of mafic intrusives, varying both in chemistry and orientation which cut the two rock units above in a number of locations.

The volcanic rocks are commonly well-banded and quite gneissic in appearance, due to the high level of metamorphism in this area, but are distinguished by the presence of highly flattened fragments, with flattening ratios of over 10:1 observed. Due to the frequent disruption of these units by felsic intrusives no distinct pattern of distribution is discernable, but overall there are more volcanic rocks (as opposed to sediments) in the southern part of the property, and within this zonation there tends to be more mafic volcanics towards the south and less so towards the north. Sedimentary and/or volcanically-derived sedimentary rocks occur at various stratigraphic intervals among the volcanic rocks and consist of impure siltstones, cherty sediments, and chert. In the north-eastern part of the property some of these rocks are locally epidotized in a nebulous fashion, the epidotization not corresponding to any significant orientation in particular.

Within the sedimentary units are three locations where sulphides, possibly stratiform, accompany chert and cherty sediments. The first two, known as Showing "A" and "B" respectively, very likely occur on-strike with each other and are quite possibly onstrike with the northern sulphide-bearing stratigraphic unit at the Geneva Lake Mine (Showing "A" occurs at L12+25E/11+00N, and Showing "B" occurs at L13+00W/07+50N). Up to 3-4 percent combined pyrite and chalcopyrite (+/- sphalerite) occurs within and parallel to banded cherty sediments as discontinuous stringers and dissem-Locally the sulfide content may be upwards of 5-6 perinations. Unfortunately, neither showing has much lateral continuity as Showing "A" is cut off by a gabbro dyke to the east, quartz monzonite to the south, and swamp to the west and north. "B" appears to be almost completely surrounded by felsic intrusive rocks and overburden. Both showings have a corressponding SP anomaly associated with them, and the SP and VLF surveys conducted as part of this effort should shed more light on these showings, and the trend as a whole. It should also be noted that a sample taken at Showing "A" last year assayed 0.43% Cu, and 0.24% Zn which is encouraging. In addition, both showings have been surface blasted and large pits exist at both locations.

A third location, known as Showing "X" occurs just north of the west entrance to "John's Road", and consists of a sequence of rusty cherty sediments on either side of a thin unit (4 ins.) of almost pure chert, very likely of a chemical exhalative origin. The sediments contain 1-2% pyrite as with the chert, in both cases as narrow discontinuous stringers and disseminations parallel to bedding/banding. Overlying the sulphide-bearing sediments is a possible felsic flow followed by more intermediate sediments. Two felsic sills intrude this sequence. Once again, there is not much continuity to this showing as it occurs on the edge of a low-lying ridge, with felsic intrusive to the south-west, and overburden to the east and north-east. It is possible that this unit, and the chert layer in particular, is correlative with the main sulphide-bearing strata at the Geneva Lake Mine.

Felsic intrusive rocks of quartz monzonite composition (Card & Innes, 1981) constitute the dominant rock type in the area, occurring extensively throughout. They vary from narrow foliated sill-like bodies between units of volcanic and/or sedimentary rocks, to larger relatively unfoliated bodies of irregular dimensions, cutting the greenstones at various orientations, or replacing them entirely. Within the larger outcrops of intrusive, various phases occur, including; medium to coarse-grained, porphyritic and/or leucocratic, and porphyritic and/or biotitic quartz monzonite, with dykes of pegmatite and aplite occurring locally.

Intruding both the intrusive and volcano-sedimentary rocks are three seperate units of mafic intrusive, differing both in age and composition. The oldest of these consists of a swarm of south- to north-west trending narrow (under 10 ft.) fine-grained mafic dykes, and are almost basaltic in appearance. They commonly occur parallel and sub-parallel to the regional rock fabric giving them a sill-like appearance, but range from south-west to north-west in strike overall. These dykes occur commonly throughout the property, but are somewhat more prevalent towards the south and south-west sectors.

A second mafic intrusive phase cuts almost diagonally across the property from north-west to sout-east, and is composed of granophyric metagabbro with a zone of hornblende metagabbro at the north-western corner of the property. These rocks belong to an intrusive body (and episode) known as the Nippissing Diabase which occurs commonly throughout this part of Ontario and which in certain areas is associated with remobilized-type mineral deposits. At the "A" Showing it is this unit which cuts off the mineralized sediments towards the east.

Finally, there is a third, and minor mafic intrusive phase which takes the form of two west, north-west trending dykes cutting across the north and south sectors of the property, and con-

sisting of diabase and olivine diabase respectively. Both are relatively young in age and unmetamorphosed, and are only seen in a few locations.

Much of the property is coverd by glacial overburden in the form of till sheets, eskers, and local accumulations of very large boulders, which to a large extent obscure the underlying geology and may even affect the geophysical and geochemical signatures of the area as well.

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Structurally, the area is rather erratic on a local scale with a strike variance of over 30 degrees within 200 feet not uncommon. As well, small tight folds and drag folds occur locally, along with broad arc-like folds often intimately related to nearby felsic intrusives. Regionally, however, the strike within the greenstones is fairly consistent and is in a west, south-west direction. Rock fabric in the intrusive phases is less consistent, particularly in the later mafic intrusive phases, but in the felsic intrusives is generally in a west, south-west direction as well.

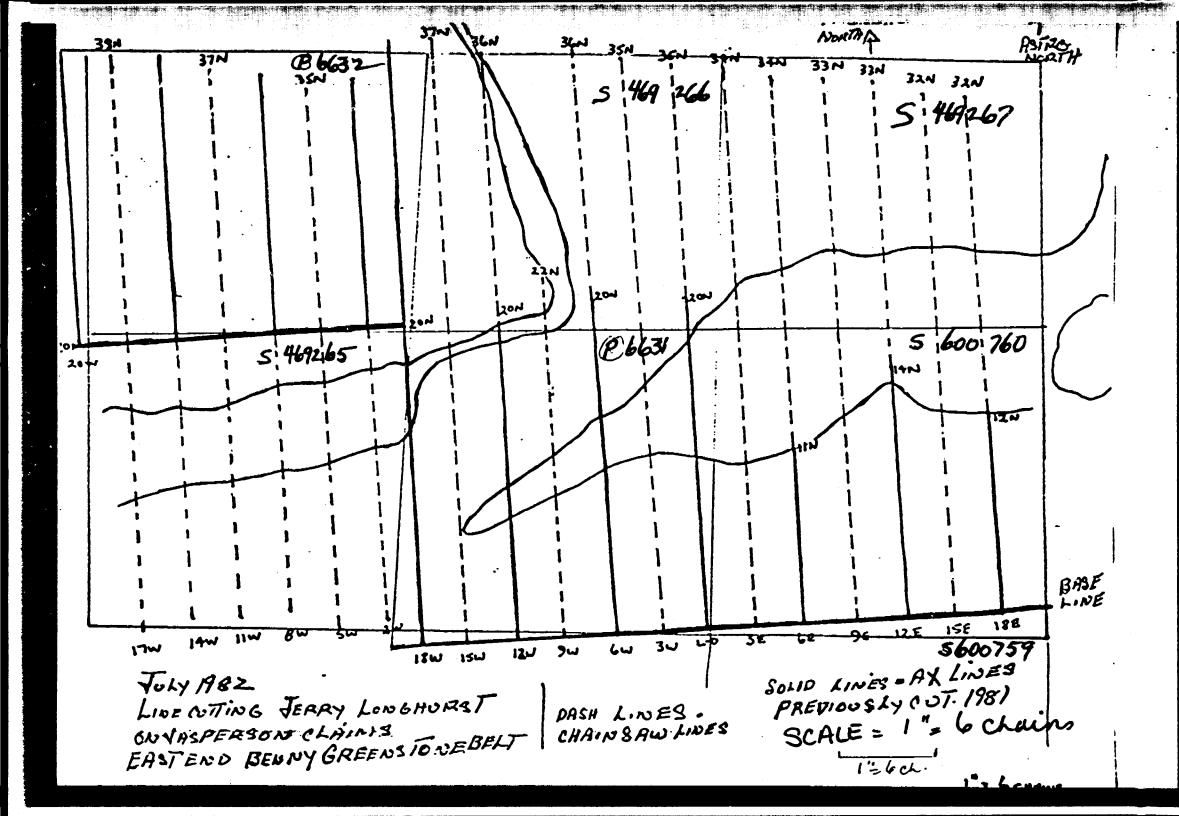
#### CONCLUSIONS & RECOMMENDATIONS

Both the geophysical surveys and prospecting/mapping have deliniated areas which are worthy of further investigation. From a geophysical point of view, the self-potential survey indicates several zones of interest, although the VLF survey does not provide any significant conductors worthy of further investigation. The possibility of an occurrence of disseminated sulphides, however, should not be entirely overlooked. It is recommended that the SP anomalies be examined by trenching where possible, along with detailed SP in the immediate area. In addition, a proton magnetometer survey should be carried out over the entire property, in order to accurately deliniate the several crosscutting dykes and complex geological contacts located within. Diamond drilling should be considered following the follow-up investigations.

From a geological point of view, the field data indicates that although there are a few locations of significant interest with respect to a Geneva Lake Mine type of occurrence, the intense and widespread intrusive pattern indicates that they would be small and discontinuous. It is quite likely, however, that the time/stratigraphic horizons eqivalent to those containing massive sulphides at the Geneva Lake deposit pass through the property, and it is the areas containing this that deserve further attention, if any is to be given at all. This includes the areas immediately surrounding Showings "A" and "B" as well as the zone inbetween, and Showing "X" and a zone passing through it parallel to the "A"-"B" zone. Follow-up work should consist of trenching and geophysical surveys, as indicated above, with special attention paid to the major and minor element chemistry of the zones sampled by trenching, in order to help determine the existence and extent of any possible accumulation of metals. Drilling would then follow, depending upon the results of these efforts.

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John Mendilo. B.S.



#### THE JASPERSON PROPERTY: AN EXPLORATION UPDATE

Cummer field work on the Jasperson Property has been com- · pleted, and a few areas deserving further investigation have been located. This is based upon both geological and geophysical criteria. The next stage of exploration, therefore, should involve a more thorough investigation of these locations in order to better determine their nature and extent. following proposal discusses the details of such a program.

Although VLF and SP data have already been obtained, with a number of anomalies located as a result, the lack of Mag data has not allowed for a clear structural picture to develop at these locations, and within the property as a whole. The first phase of this program, therefore, will involve a Mag survey of the entire property in order to accomplish this goal, and to perhaps locate other hitherto unknown areas of interest as well. Following this, the Mag data will be correlated with that previously obtained, and the five best anomalies will be selected (geological/geophysical) for trenching and sampling. This selection and evaluation process prior to drilling will ensure more fruitful and less expensive drilling.

Costs for this program are based on a per mile/trench basis, and includes; labour, equipment rental/purchase, mobilization, data preparation and complete reports on both the geological and geophysical investigations. Costs are as follows: follows:

Mag Survey 12.5 miles, @ \$240.00/mile (incldg detailing)....\$3000.00

4000.00. 7/11/4 by Trenching 10 trenches, @ \$400.00/trench..... -----Grand-Total......\$7000.00

Hopefully, these terms will meet with your approval, so that field work may begin within the next few weeks.

Submitted Most Respectfully ...

Avrom E. Howard, B.Sc.

John E. Buckle, B.Sc.

Kind Production

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## X-RAY ASSAY LABORATORIES

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1885 LESLIE STREET + DON MILLS ONTARIO M3B 3J4 + (416) 445-5755 COPY 10

HREE VALLEYS DRIVE MILLS, ONTARIO M3A 3LB

ITTED TO

JOHN K. JASPERSON 182 THREE VALLEYS IRIVE DON HILLS, ONTARIO H3A 3LB (1KST(VER NO. 774

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Confirmation

S. V. BURR, M.A.
CONSULTING GEOLOGIST

TELEPHONE GE<del>: 5-7904,</del> 1/64 - 37.35

2111 - 143 (Ext. 51

964-3738

In Account with Tokonto M5A 3W1

John Janjain JOHN JASPERSON

To Professional Services, S 400. 50

Explication of Georgiantific Surveyor

EVALUATION OF GEOSCIENTIFIC SURVEYS ON THE HESS TWP PROPERTY

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# Aargo Exploratio consultants & contractors in Minerals Explo.

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Office: RR 1, Breslau, Ont. NOB 1MO

(519) 648-3016

Residence: 41 Shallmar Blvd, Toronto, Ont. MCC2K1 (416) 787-711

Report on the Proton Precession

Magnetometer Survey of the

Jasperson Property
Hess Township, Ontario
October, 1982

Prepared by: John E. Buckle, B.Sc.

#### INTRODUCTION

The Jasperson Property consists of eight claims located in the north-central sector of Hess Township, approximately 20 miles north-east of the town of Cartier, in the Sudbury, District. In addition, it is situated 1.5 miles east of the Geneva Lake Mine, a former producer of zinc and lead, and in a regional sense is on-strike with it. The property includes three patented claims (S6631-3), two claims staked in 1980 (S600759-60), and three staked in July 1982 (469265-7). In order to fully evaluate the economic mineral potential of this property, a geologist and a geophysicist were commissioned to carry out geological mapping and a self-potential (SP) survey respectively, across the property. In addition, a VLF survey was conducted. Prior to the above mentioned surveys pedogeochemical and SP surveys had been conducted over parts of the property. Finally, a proton precession magnetometer survey was conducted over the entire property to be followed by trenching or possibly diamond drilling. This report covers the magnetometer survey conducted on the Jasperson Property in October of 1982.

#### ACCESS, TOPOGRAPHY

The property lies just north of and straddling an old logging road running east from highway 144, and road acess is available by two-wheel drive vehicle during the snow-free months. The topography of the area is characterized by a few ridges striking nort-east and are steep in places and glacial features with similar strike direction. Two extensive swamps,

one located in the east (spruce-Labrador tea) and the other in the west which is almostly completely overgrown with grasses.

Survey Proceedure and Equipment

The magnetemeter survey was conducted by the authour between the 19-rand 23-rand of October 1982 on a pre-established, picketed grid having line spacing of 3 chains and stations picketed at 1 chain intervals.

In order to correct for diurnal drift the values at all baseline stations were ascertained at least twice with time intervals between readings not greater than 1½ hours. With the baseline values established the survey lines were run and subsequently adjusted for drift to the control line(baseline)

#### Interpretation

The most notable feature of the survey data is the Nippissing diabase dike striking northwest-southeast across the survey area. Local variations within the dike are probably due to topographic changes.

#### Anomaly #1

This anomaly exhibits a dipole response characteristic and thus is probably an isolated response reflecting a contact metamorphic variation between the intermediate metavolcanics and the felsic intrusives.

#### Anomaly#2

Anomaly #2 is of some interest as it seems to represent a significant response in both size and strength.

The significance of this response is enchanced by a coincident self-potential anomaly.

Anomaly #3

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This anomaly would seem to strike parallel to the dike, however due to lack of data this can only be assumed. The strength of the anomaly would indicate a high concentration of magnetic minerals, possibly iron formation or pyrrhotite.

#### Anomaly #4

Although arealy small this anomaly is valid and warrants investigation. Little geological information is available for this area and it is difficult to guess a probable source. It is possible that this response may relate to anomaly #3 as an outlier or a faulted offset.

#### Anomaly #5

Anomaly #5 is the most interesting of the survey most notably because it is coincident with a self-potential anomaly. Topographically the anomaly is on a high outcropping ridge. This anomaly is likely a metallic bedrock source.

Also of note in the survey results are the anomalies on lines 8w and 6w. These mag highs are probably associated with hornblende gabbro mapped in outcrops in the area of the anomalies.

The response lying south of showing "B" shows a broad zone of moderate magnetic susceptibility with an adjacent low. Coincidentally showing "A"also has an associated mag low.

#### Recommendations and Conclusions

The magnetemeter survey has helped to determine not only the geological boundaries which had previously been interpreted but also has given sufficient evidence to substantiate the interpretation of the structure. Notably the existance of the offsetting fault in the Nippissing Diabase dike.

It is recommended that the S.P. anomalies located in previous surveys and enhanced by magnetic high values be trenched and sampled to determine the source. The areas recommended specifically are anomalies #1, #2, #4 and #5.

An area of further investigation is recommended. On lines 9w, 12W and 15W between 20; and 35N, insufficient S.P. and mag data has been available to conclusively eliminate the potential of the zone.

With the indication of a possible fault line zone of weakness it may be prudent to gather more data in this area.

Generally, the survey work conducted on the property has been thorough and the probabilities of a large mineral deposit are slight. In this light, only limited further work is suggested.

John E.Buckle, B.Sc.

#### SAMPLE LIST

				_
	Sample No.	Location	Rock Type	<u>Analysis</u>
	3933	12.5E/4.5S	mafic dyke w/ Py	Cu, Zn, Fe, Ni, Au, Ag
	3934	12.5E/4.5S	volcaniclastics	Whole Rock, Trace
بيتيسر	3935	17E/4N	mafic dyke	Cu, Zn, Fe, Ni, Au, Ag
	3936	17E/4N	mafic dyke	Whole Rock, Trace
	3937	17.5E/31.5N	mafic dyke	Cu, Zn, Fe, Ni, Au, Ag
	3938	17.5E/31.5N	mafic dyke	Whole Rock, Trace
	3939	16E/33N	mafic dyke	Cu,An,Fe,Ni,Au,Ag
	3940	16E/33N	mafic dyke	Whole Rock, Trace
	3941	16E/33N	volcaniclastics	Whole Pock, Trace
	3942	3.5W/3.5N	monzonite	Cu,Zn,Fe,Pb,Au,Ag
	3943	3.5W/3.5N	nonsonite	Whole Rock, Trace
	3944	11.5E/4.5S	mafic dyke	Cu,Zn,Fe,Ni,Au,Ag
	3945	11.5E/4.5S	volcaniclastics	Whole Rock, Trace
	3946	11.5E/4.5S	volcaniclastics	Cu,Zn,Fe,Pb,Au,Ag
	3947	11.5E/4.5S	monzonite	Cu, Zn, Fe, PB, Au, Ag
	3948	11W/10S	cherty sediments	Cu,Zn,Fe,Pb,Au,Ag
	3949	11W/10S	cherty sediments	Cu, Zn, Fe, Pb, Au, Ag
	3950	11W/10S	chert (exhalite)	Whole Rock, Trace
	3951	11W/10S	chert (w/ Py)	Whole Fock, Trace
	3952	11W/10S	cherty sediments	Cu,Zn,Fe,Pb,Au,Ag
	3953	11W/10S	spotted chert	Cu,Zn,Fe,Pb,Au,Ag
	3954	11W/10S	chert (w/ biot., ser.)	Cu, Zn, Fe, Pb, Au, Ag

3936 17E4N WR9 Twee may be missing

#### X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET. DON HILLS. ONTARIO M38 3J4

PHONE 416-445-5755 TELEX 06-986947

#### CERTIFICATE OF ANALYSIS

TO: JOHN K. JASPERSON 182 THREE VALLEYS DRIVE DON MILLS. ONTARIO M3A 3L8

CUSTOMER NO. 774

DATE SUBMITTED 22-NOV-82

REPORT 16671

REF. FILE 12351-Q1

21 ROCKS

WERE ANALYSED AS FOLLOWS:

	METHOD	DETECTION LIMIT
AU OZ/TON	FA	0.001
AU PPB	FADCP	2.000
WRMAJ %	XRF	0.010
FE X	XRF	0.010
FE PPM	DCP	2.000
NI Z	XRF	0.010
CU X	XRF	0.010
CU PPM	DCP	0.500
ZN X	XRF	0.010
ZN PPM	DCP	0.500
WRHIN PPH	XRF	10.000
AG OZ/TON	FA	0.100
AG PPM	DSP	0.500
CD PPM	DCP	1.000
PB %	XRF	0.010
PB PPM	DCP	2.000

X-RAY ASSAY LABORATORIES LIMITED

DATE 03-DEC-82

SAMPLE	AU DZ/TON	AU PPB	FE %	FE PPM	NI X	
3933	NIL		5.25		TRACE	
3734		<2		50000	-	
3935	NIL		6.10		0.01	
3937	NIL		5.10		TRACE	
3 93 8		<2	***	62000		
3 93 9	NIL		5.18		0.01	
3940		<2		13 0000		
3941		<2		14000		
3942	NIL		0.64	.==		
3943		<2		7700		
3944	NIL	,	6.79		0.01	
3945	**	<2		55000		
3946	NIL		6.21			
3947	NIL	** **	0.79			
3 94 8	NIL		2.26			
3949	NIL		5.45			
3950		<2		12000		
3951		<2		37000		
3952	NIL		2 - 28			
3953	NIL		2.55			
3954	NIL	-	2.95			

SAMPLE	CU <b>%</b>	CU PPM	ZN X	ZN PPH	AG OZ/TON
3933	0.01		0.02		NIL
3934	••	52.0	-	110.	40 40
3935	NIL	-	0.02		NIL
3937	NIL		0.01		NIL
3 93 8		8.5		33.0	-
3939	NIL		0.01		NIL
3940		6.0		130.	
3941		6.0		18.0	
3942	NIL		TRACE		NIL
3943		4.5		13.0	• •
3944	0.06		0.02		NIL
3945		79.0		90.0	•••
3946	NIL		0.02		NIL
3947	NIL		TRACE		NIL
3 94 8	NIL		0.01	-	NIL
3949	NIL		0.04		NIL
3950		11.0		20.0	
3951		41.0		380.	an er
3952	NIL		0.01		NIL
3953	NIL		TRACE		NIL
3954	TRACE		TRACE		NIL

SAMPLE	AG PPM	CD PPM	PB 🗱	PB PPM	
****					-
3933					
3934	0.5	<1		8	
3935					
3937					
3 93 8	1.0	<1		28	
3 93 9	***				
3940	0.5	<1		18	
3941	<0.5	<1		4	
3942			0.02		
3943	<0.5	<1		26	
3944					
3945	0.5	<1		16	
3946		-	TRACE		
3947			TRACE		
3 94 8	to ear		TRACE	~-	
3949			TRACE		
3950	<0.5	<1		34	
3951	0.5	2		44	
3952			0.01		
3953			0.01		
3954			0.01	••	

X	X	RRR	RP		<b>a</b>	LL
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X	X	RR	R	AA	ΔΔ	111111

XRF - WHOLE ROCK ANALYSIS

JOHN K. JASPERSON

**REPORT 16671** 

03-DEC-82

X-POLY ASSAY	I AFORATORI	IES	03-DFC-	-82		report 1	16671 R	EFERENCE	FILE 12	351		PAGE !	1	
SAMPLE	\$102	AL203	CAO	MGO	NA20	K20	FE203	mo	1102	P205	CR203	FOI	SUM	
3934	65. 2	14. 5	1. 91	2 83	3. 71	1. 37	7. 76	0. 13	0. 61	0. 13	0. 01	1. 85	<i>9</i> 9. 7	
3938	42 5	8. 23	18.2	4. 31	1. 72	0. 23	9. 57	0. 21	0. 69	0. 08	0. 00	14.1	99. 9	
3940	39. 5	15, 9	1. 69	11. 2	1. 18	0. 80	20. 3	0. 20	1. 90	0. 20	0. Oj	6. 16	99. 1	
3941	81. 8	8. 79	0. 22	1. 28	1. 38	1. 99	2 60	0. 02	0. 10	0. 02	0. 02	1. 31	99. 6	
3943	72. 3	13. 9	0. 75	0. 54	4. 05	5. 00	1. 25	0. 01	0. 23	0. 08	0. 01	0. 62	98. <b>9</b>	
3945	63.7	13.5	2. 23	3. 04	2. 52	3. 21	8. 65	0. 09	0. 58	0. 14	0. 01	1. 16	98.8	
3950	83, 3	7. 12	0. 10	0. 25	1. 13	3. 87	1. 51	0. 00	0. 11	0. 02	0. 02	1. 00	98.5	
3951	66. 3	12 6	1. 42	1. 41	0. 60	7. 51	5. 71	0. 05	0. 46	0. 10	0. 01	2.47	98. 7	

X-ray assay Laboratories		03-DFC-82	REJ	ORT 16671	REFERENCE FILE	12351	PAGE	2	
Sample	RB	SR	ZR						
3934	40	150	160						
3938	0	120	50						
3940	20	0	160						
3941	70	0	100						
3943	150	220	170						
3945	180	230	140						
3950	60	80	180						
3951	120	140	270						



To: Er. John Jasperson:

# EVALUATION OF GEOSCIENTIFIC SURVEYS ON THE HESS TOWNSHIP PROPERTY

#### GENERAL COMMENTS

After detailed studies, the writer is satisfied that each of the four surveys: Geological, Self Potential, VLF and Magnetic, were conducted in an efficient manner. There are some unusual features on the S.P. map, which will be reviewed below.

Two of the surveys deserve special comments.

#### MAGNETOMETER SURVEY

The most interesting feature of this survey is the flexure indicating a NNE to NE fault offsetting the magnetic diabase dyke at the north end of Line 9W, suggesting a west side throw of some 160 feet north. A creek valley coincides. In view of the S.P. results, this fault may have economic interest.

#### SELF POTENTIAL SURVEY

Most of the several anomalies found, including those over the two old mineralized trenched areas, are short and narrow, and are not considered high priority targets, although they should not be ignored.

The larger, un known anomales, "A", "B" and "E", do warrant more immediate investigation next Spring.

"A" - This strong anomaly runs up Line 12% north of the creek, and weaker anomalies from the base line all the way up. This crosscutting anomalous condition would be questionable were it not that the original Jasperson survey showed similar anomalous values on the same line. As it is, this line should be re-checked and, if anomalous conditions are found, traverses east-west at 100 to 200 foot intervals should be conducted as shown on page 13, Figure 7, of the writer's paper: "A GUIDE TO PROSPECTING BY THE SELF-POTENTIAL NETHOD".

The interesting feature of this anomaly is its close proximity to the magnetically-indicated fault.

"B-1" - This strong anomaly is on Line 12W north of "A" (although the two may intersect) and near the north boundary of the diabase dyke. It may be the westerly extension of the somewhat weaker "B-2" anomaly on the eastern side of the fault. With some detailed "peaking" (Fig 9, page 14 (see above)), "B-1" should be accessible to manual stripping.

"E" - which lies just north of the base line, is of interest because of its length (2200) feet plus, and width. It may link up with the old copper area (Anomaly D).

A rather unusual feature is two localized areas of strong positives (Line 2W, south of creek, and Line 3W, north end.) At first glance, one might suspect an operator error. Neither, however, seem likely.

The writer has run into similar local high positives on at less two occasions. All are located besides known or suspected NE faults. His explanation is that these are local areas of compression due to fault movement, such that the rock became much more dense and, therefore, much more resistant(non-conducting) than neighbouring rocks.

#### ROTES

- (1) To satisfy Assessment (and OMEP) requirements, a Magnetometer Report is needed. This should wrap up the four surveys so that any inter-relationships are pointed out.
- (2) ALL maps should show claim posts, claim lines and claim numbers, north arrows (astro and magnetic), and grid lines (including the geological map)

#### RECOMMENDATIONS

After break-up (or later in the drier season), anomalies "A", "B-1" and "E" should be investigated to see if they can be exposed manually. (See also comments under "A" and "B-1" above).

S. V. Burr

November 24, 1982.

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"TECH APPNOX		
LINE CUTTING MAP		
TRENCHING MAP		
ASSAY RESULTS		
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SORMARION		
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MAG CONTOUR MAP	1	(4)
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# Ontario

OFFICE USE ONLY

#### **Ministry of Natural Resources**

### GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Township or Area/	1E55	TOWNSHIP	
Claim Holder(s)			MINING CLAIMS TRAVERSED List numerically
Survey Company 12	70-00	Explorations	P 6632 P.6633
Author of Report	-		(prefix) (number)
		enter Ave & # 106, Tob	S 469 265
Carrier Dates of Curren	T /	21 - 12 - 27/8-	s 469 266 -
Covering Dates of Survey	1	21 - Class 27/82	- S 1/2 0/2
Total Miles of Line Cut_			S 469 267
	·		s 600 760
SPECIAL PROVISION CREDITS REQUESTE		DAYS Geophysical per claim	
	-	-Electromagnetic	
ENTER 40 days (including cutting) for first	ides	-Magnetometer	
survey.		-Radiometric	
ENTER 20 days for ea	ach	-Other 5 P. 40	
additional survey using		Geological	
same grid.	•	Geochemical	
AIDRORNE CREDITS	*C=i-1 provision	n credits do not apply to airborne surveys	
		ticRadiometric	,
DATE: Dec. 15 '82	(enter days	s per claim)	4
Res. Gcol.	Qualific	ations	
Previous Surveys	-		
File No. Type	Date	Claim Holder	
		***************************************	
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	<b>,</b>		
	••••••••••••••••••		

#### GEOPHYSICAL J ECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

N	umber of Stations 910	Number of Readings	,
St	ation interval 12 chair 13	3 (t) Line spacing 3 chair	
Pr	ofile scale	/	
C	ofile scaleontour interval25	./h	
7.1	Instrument		
MAGNETIC	Accuracy - Scale constant		
Z	Diurnal correction method		
W	Base Station check-in interval (hours)		
	Base Station location and value		<del></del>
의	Instrument		
7	Coil configuration		
	Coil separation		
	Accuracy		
	Method:	☐ Shoot back ☐ In line	☐ Parallel line
	Frequency		<del></del>
	Parameters measured		
	Turameters measured		
	Instrument		
	Scale constant		
IX	Corrections made		
GRAVITY	1		
GR	Base station value and location		
	·		
	Elevation accuracy		
	<b>,</b>		
	Instrument		
1	Method  Time Domain	Frequency Domain	
4	Parameters – On time	Frequency	
H	- Off time	Range	
3 5	Delay time		
	- Integration time		
RESISTIVITY	Power		
3 4	Electrode array		
1	Electrode spacing		
•	Type of electrode		
	-/		

SELF POTENTIAL	
Instrument Dig tal williwalt in	nte Range <u>+ 1 millind</u>
Survey Method	(field put - gene maning put
Corrections made pot differe	ace to been 5totes.
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Size of detector	
Overburden	
(type,	depth — include outcrop map)
OTHERS (SEISMIC, DRILL WELL LOGGING I	ETC.)
Type of survey	
Instrument	
Accuracy	
Parameters measured	
Additional information (formation and income)	
•	(s)
<u>AIRBORNE SURVEYS</u>	
Type of survey(s)	
Instrument/s)	
Ispeci	for far each tune of enment
Accuracy	fy for each type of survey)
Aircraft used	
	Line Spacing
	Over claims only

# Ontario

#### Ministry of Natural Resources

### GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) MAGA	IETO METER	
Township or Area 11 Ess	Township	MINING CLAIMS TRAVERSED
Claim Holder(s)	JASPERSON	List numerically
-		2 6631
	Explorations	
	Buchle	1 0 85.12
Address of Author 158 Egli-	to Due & # 100, TORCATE.	P 66)3
Covering Dates of Survey <u>Cct</u>	(linecutting to office)	2 400 250
Total Miles of Line Cut		3 600 759
		s 600 760
SPECIAL PROVISIONS	DAYS	s 469 265
CREDITS REQUESTED	Geophysical per claim	s 469 266
	-Electromagnetic	
ENTER 40 days (includes line cutting) for first	-Magnetometer 20	s 469 267
survey.	-Radiometric	
ENTER 20 days for each	-Other	
additional survey using	Geological	
same grid.	Geochemical	
AIRBORNE CREDITS (Special provi	sion credits do not apply to airborne surveys)	
MagnetometerElectromagn		
	lays per claim)	
DATE: Dec. 15 '82 SIGNA	TURE: John Beach	
	Author of Report or Agent	
<b>D</b> 0 1	fications 3833	
Res. Geol. Qualit	ications 3 5 5	
Previous Surveys File No. Type Date	Claim Holder	
		TOTAL CLAIMS

#### GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

N	umber of Stations 1270 750	Number of Readings 4300
		Line spacing 3 chairs:
	ofile scale	• •
u	ontour interval	
MAGNETIC	Accuracy – Scale constant	controlin and volume established
ELECTROMAGNETIC	Coil configuration	
Š	Accuracy	
13	Method:	☐ Shoot back ☐ In line ☐ Parallel line
<u>ere</u>	Frequency	(specify V.L.F. station)
	Parameters measured	
GRAVITY	Scale constant Corrections made	
G	Base station value and location	
	Elevation accuracy	
	Instrument	
4	Method Time Domain	Frequency Domain
	Parameters - On time	Frequency
K	- Off time	Range
STIVIT	- Delay time	
RESISTIVITY	- Integration time	
RES	Power	
RE	Electrode array	
	Electrode spacing	
	Type of electrode	

INDUCED POLARIZATION

# Ontario

#### **Ministry of Natural Resources**

## GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOW. HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Claim Holder(s) J. JASPERSON  Survey Company Augo Exploration	MINING CLAIMS TRAVERSED List numerically P 6631
Claim Holder(s) J. JASPERSON	List numerically
Survey Company Augo Explanation	P 6631
Author of Report Jack Buckle	(prefix) (number) P6632
Address of Author 458 Eglinlan Ave E. # 106 Toronia	P6633
Covering Dates of Survey Tail (linecutting to office)	s 600759
Total Miles of Line Cut E	s 600 760
SPECIAL PROVISIONS DAYS	S 469 265
CREDITS REQUESTED Geophysical per claim	s 469 266
ENTER 40 days (includes —Electromagnetic	s 469 267
line cutting) for first  -Magnetometer  -Radiometric	
ENTER 20 days for each —Other additional survey using Geological	
same grid.	·
Geochemical	
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	
Magnetometer Electromagnetic Radiometric (enter days per claim)	
DATE. Dec 15 '82 SIGNATURE.	······································
Author of Report of Agent	
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Previous Surveys	••••••••••••••••••
File No. Type Date Claim Holder	
	TOTAL CLAIMS

#### GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Νι	umber of Stations	70		Number of Rea	adings
St	ation interval	Lain	(33/1)	Line spacing	200' (3 chang)
Pr	ofile scale	25	· /		
	ontour interval22				
u	Instrument	<del></del>			
H	Accuracy - Scale constant				
MAGNETL	Diurnal correction method.	<del></del>			
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	Base Station location and va	iluc			
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<b>ELECTROMAGNETIC</b>					
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13		ο . 	(specify	V.L.F. station)	:/ 11
	Parameters measured	2.ρ	angle +	T W.J.	shough satis
	Instrument				
	Scale constant				
	Corrections made				
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INDUCED POLARIZATION

# Ontario

### Ministry of Natural Resources

# GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) (eslogical	
Township or Area MESS Townsiles	MINING CLAIMS TRAVERSED
Claim Holder(s) T. JASPERSON	List numerically
Survey Company 1 6 / 6:	P 6631
Author of Report A. E. House	P 6632 (number)
	P 6633
Address of Author 41 Shallware Bruo, Topoure  Covering Dates of Survey 1 (linecutting to office)	1
Total Miles of Line Cut	s 600 759
Total sites of Line Cut	s 600 760
SPECIAL PROVISIONS DAYS	S 469 265
CREDITS REQUESTED Geophysical per claim	S 469 266
ENTER 40 days (includes	S 469 265 S 469 266 S 469 267
line cutting) for first  survey.  -:-lagnetometer Radiometric	1.5
ENTER 20 days for each Other additional survey using Geological 20	
same grid.	
Geochemical	
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)	
MagnetometerElectromagneticRadiometric	
DATE: Dec. 15 '82 SIGNATURE: Author of Report or Agent	
	1
Res. Geol. Qualifications	
Previous Surveys	
File No. Type Date Claim Holder	
·	
	. 1
	TOTAL CLAIMS

### GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken			
Total Number of Samples	ANALYTIC	AL METHOD	s
Type of Sample(Nature of Material)	Values expressed in:	per cent p. p. m.	* 
Average Sample Weight		p. p. b.	
Method of Conection	Cu, Pb, Zn, Ni, Co,	Ag, Mo,	As,-(circle)
Soil Horizon Sampled	Others		····
Horizon Development	Field Analysis (		tests)
Sample Depth	Extraction Method		
Terrain	Analytical Method		
	Reagents Used		· · · · · · · · · · · · · · · · · · ·
Drainage Development	Field Laboratory Analysis		
Estimated Range of Overburden Thickness	No. (Extraction Method		
	Analytical Method		
	Reagents Used		
SAMPLE PREPARATION [Includes drying, screening, crushing, ashing)	Commercial Laboratory (.	·	tests
Mesh size of fraction used for analysis	Name of Laboratory		
·	Extraction Method		
)	Analytical Method		
	Reagents Used		
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		Joh	n K. Jasper	son Dr.				
		Don -	7 This Valleys Mills, Ont. M3/ 447-6557	A 318				

April 1

Mining Recorder
Ministry of Natural Resources
199 Larch Street
Sudbury, Ontario
P3E 5P9

Dear Sir:

We have received data for Assaying and reports and maps for a Geological, Geophysical (Electromagnetic and Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims S 469265 et al in the Township of Hess.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the <u>report of work</u> which is normally filed with you prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1380

DW:sc

cc: Mr. John K. Jasperson Don Mills, Ontario

cc: MR. John Buckle Toronto, Ontario

Note: - Only days credits calculated in the mns.

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Name and Address of Author to	Geo-Technical report)	1140 D.				- 400		
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Credits Requested per Each (				aims Traversed (L	<del></del>			
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Enter 40 days, (This includes line cutting)	- Magnetometer							
		20	·					
For each additional survey:	- Radiometric		1	469265			,	
using the same grid: Enter 20 days (for each)	Other VLF	20		469266				
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and enter total(s) here	Crecti omagnatic			-11	<del>  </del> ;	el .		
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\$ 904.80	+ [15] = [4	60					mber of mining pvered by this	~
Instructions						report o	f work.	<u> </u>
Total Days Credits may be a choice. Enter number of day				For Office Use C		<u> </u>		
in columns at right.			Total Day	C.IDete Recorded	1/10	Minigo P	111, ~ (11)	
<del>//</del>		(C	1560	Date Approved	4143	Branch C	Si VV LCKY	<u>در'</u>
# W/03 \$	corded Honer or Agent	A A .		Dete Approved		- aranch t		
10w/8/85 14	MAN MAN	word	<u> </u>					
Certification Verifying Repo		nowledge of	f the facts set	forth in the Renort	of Work and	nexed berein	having performe	d the work
Or witnessed same during and	r personal and intimate a d/or after its completion	and the ani	nexed report i	s true.		TAEU HEIELU	, nerny pentine	o tire HUIR
Name and Postal Address of Par	son Certifying			MGCO	ZKI		4101-	<del></del>
Avison E. How!	no 41 Sil	11.1992	<b>'SLUB</b>	TOWNTO		JAN K	11800	
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Note: — Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.

TRENCHING  CIBITH HOLDER (8) JOHN K. JASPERSON  Address 182 THREE VALLEYS DE DONMILLS M3P3L						Prospector's Licence No.	,
Address 182 THR	EEVALLE	ys D	D DO	NMILLS	1/3836	8	
Survey Company		****		Date of Survey  Day Mo. 1  MA A B	Day Day	OU \$2 Total Miles of hir	e Cut
Name and Address of Author to AUROM E Hi	1 Geo-Technical report)	70	SHALL	MAR BI	ZKI		
Credits Requested per Each (	Claim in Columns at r	-	Transing C	THIS TIEVETSEE !	C131 111 110111C1	TOO SEQUENCE	
	Geophysical	Days per Claim	Prefix	lining Claim Number	Expend. Days Cr.	Mining Claim Prefix Number	- Expe
For first survey: Enter 40 days, (This	- Electromagnetic						
includes line cutting)	- Magnetometer						
For each additional come	- Radiometric			1149012	1		
For each additional survey: using the same grid:	- Other			MACH	1/40		
Enter 20 days (for each)				764766	100		
	Geological			46926/_			
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Man Days	Geophysical	Days per Claim		600 760	80		
Complete reverse side and enter total(s) here	- Electromagnetic			· · · · · · · · · · · · · · · · · · ·			
and enter total Here	· Magnetometer			LN1759	ha		
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Airborne Credits		Days per Claim			1		
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credits do not apply	Magnetometer				<del> </del> -		
to Airborne Surveys.							
Eugandian Vallat dan -	Radiometric						
Expenditures (excludes pow Type of Work Performed							
TRENCHING	TASSAYING						-
TRENCHING Performed on Claim(s) 600760	111.9-11 111	6217					
600137,600/60,	701666,4	746/_	Ì		1		
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		i otal					
Total Expenditures		Credits	L	1			
S 7217.8	+ 15 = <del>2</del>	81				Total number of mining claims covered by this	
Instructions Total Days Credits may be a	pportioned at the claim I	holder's	<u></u>		<del></del>	report of work.	L
choice. Enter number of day in columns at right,			Total Day	For Office Use		Mining Recorder	<del></del>
			Recorded				
DEC 14/82 Certification Verifying Repo	corded Holder or Agent (			Date Approve	d as Recorded	Branch Director	
I hereby certify that I have a or witnessed same during and	personal and intimate k	nowledge of	the facts set	forth in the Report	of Work anner	ked hereto, having perform	d the wo
Name and Postal Additing and		the orini	- ACC TEPOTE	· · · · · · · · · · · · · · · · · · ·			
182 Think	e Valleys Dr.	<b></b>					
Dan Alins	Ont. M3A 318			Date Certific	.1	Comflet my/Signature)	

# Summary of 1982 Work CREATS TASPERSON CLAIMS - HELLTUR.

	-			•	•	TREACHING.	
CLAIM	Irst SP	eN'd SP	MAG	VLF	GEOL.	+ Assaying	TOTAL
3469265	40		20	20	20		100
469266	40	•	20	20	20		100
469267	40		20	20	zo		100
s 600 759			20	20	żo	40	100
600760		20	20	20	20	87. 42 sl	117

40 days applied to all claims.

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		DAT	re 1).6	c 14	1982	57843
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1			JD FOL	IR -	DOL	LARS 18 904.80
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ном	PAID	ACC	THUD		416-44	5.5755
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Mining Lands C	omments		
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To: Geophysics	;		······································
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_	To: Mining Land	s Section, Room 6462, Whitney Block.	(Tel: 5-1380)	*** <u>**********************************</u>	
1	J .o. winning cand	s occition, mount order, mining block,	11cm 5-1500)		

2.5319 August 5, 1983 John K. Jasperson 182 Three Valleys Drive, Don Mills, Ontario **M3A 3L8** Dear Sir: RE: Geological and Geophysical (Electromagnetic, Magnetometer, and Self-Potential) Survey submitted on Mining Claims \$\$ 469265 et al in the Township of Hess. Enclosed are the plans, in duplicate, for the above-mentioned Geological survey. Please show the outcrops designated by colour and thturn them to this office. For further information, please contact Mr. F.W. Matthews at (416)965-1380. Yours very truly, E.F. Anderson Director Land Nanagement Branch Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-1380 D. Kinvig:mc Encl. cc: Mining Recorder Sudbury, Ontario



Notice of Intent for Technical Reports

1983 11 25

2.5319

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Lands Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



Dec 12/83

Your file

1983 11 25

Our file: 2.5319

Mr. V.C. Miller
Mining Recorder
Ministry of Natural Resources
199 Larch Street
Sudbury, Ontario
P3E 5P9

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. F.W. Matthews at 416/965-1380.

Yours very truly,

E.F. Anderson

**Director** 

Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1316

D. Kinvig:mc

Encls:

cc: John K. Jasperson 182 Three Valleys Drive Don Mills, Ontario M3A 3L8 CC: MR G.H FERGUSON
MINING & LANDS COMMOSSINGE
TORONTO, ONTARIO



### **Work Credits**

Date Mining Recorder's Report of Work No

Recorded Holder JOHN K. JASPERSON	
Township or Area HESS TOWNSHIP	
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	S 469265 to 67 inclusive
Electromagnetic days	600760
Magnetometer days	
Radiometric days	
AXERE POTENTIAL 40 days	•
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological days	
Geochemical days	
Man days 🗌 Airborne 🔲	•
Special provision Ground Ground	
Credits have been reduced because of partial coverage of claims.	•
Credits have been reduced because of corrections to work dates and figures of applicant.	
pecial credits under section 77 (16) for the following min	ing claims
•	
No credits have been allowed for the following mining clair  not sufficiently covered by the survey  In	ms - * sufficient technical data filed
\$ 600759	

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Recorded Holder

1983 11 25 Work No.

JOHN K, JSAPERSON		
Township or Area HESS_TOWNSHIP		
II-VV IVIIIVIIII		
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed	
Geophysical		
Electromagnaticdays	S 469265 to 67 inclusive 600760	
Magnetometer days		
Radiometric days		
Induced polarization days		
Other days		
Section 77 (19) See "Mining Claims Assessed" column		
Geological days		
Geochemical days		
Man days 🗌 Airborne 🖸		
Special provision 🗵 Ground 🗵	·	
Credits have been reduced because of partial coverage of claims.		
Credits have been reduced because of corrections to work dates and figures of applicant.	•	
Special credits under section 77 (16) for the following:	mining claims	
15 DAYS MAGNETOMETER A	ND 10 DAYS ELECTROMAGNETIC	
•		
S 600759		
No credits have been allowed for the following mining	claims	
not sufficiently covered by the survey Insufficient technical data filed		
The Mining Recorder may reduce the above credits if her	essary in Order that the total number of approved assessment days recorded on	

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77 (191—60: 828 (83/6)



### Work Credits

	2.5319
Dete 1983 11 25	Mining Recorder's Report of Work No.

Recorded Holder  JOHN K. JASPERSON		
Township or Area HESS TOWNSHIP		
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed	
Geophysical		
Electromagnetic days	0.450050.4.53.4.43.04.00	
Magnetometer days	S 469265 to 67 inclusive 600759 - 60	
Radiometric days		
Induced polarization days		
Other days		
Section 77 (19) See "Mining Claims Assessed" column		
Geological days		
Geochemical days		
Man days Airborne		
Special provision 🔼 Ground 🕇		
Credits have been reduced because of partial coverage of claims.		
Credits have been reduced because of corrections to work dates and figures of applicant.		
Special credits under section 77 (16) for the following	mining claims	
Special credity dider section 7.7 (10.70). The restricting		
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No credits have been allowed for the following mining	alaina	
	Insufficient technical data filed	
The security covered by the solves		



# Technical Assessment Work Credits

2.5319

1983 11 25 Mining Recorder's Report of Work No 83-20

Recorded Holder	JOHN K. JASPERSON	
Township or Area	HESS TOWNSHIP	
Type o	f survey and number of	Mining Claims Assessed
	ent days credit per claim	mining Cistins Assessed
Geophysical  Electromagnetic	Gey1	\$904.80 spent on assaying samples taken from mining claims S 600759-60
Magnetometer	days	
Radiometric	days	

60 days credit allowed which may be grouped in accordance with Section 76(6) of the Mining Act Section 77 (19) See "Mining Claims Assessed" column Geochemical \_\_\_\_\_\_ days Man days Airborne Special provision Ground 🔲 Credits have been reduced because of partial coverage of claims. Credits have been reduced because of corrections to work dates and figures of applicant. Special credits under section 77 (16) for the following mining claims No credits have been allowed for the following mining claims

not sufficiently covered by the survey	Insufficient technical data filed

1983 12 20

Your File: 83-20 Our File: 2.5319

Mining Recorder Rénistry of Natural Resources 99 Larch Street Sudbury, Contario P3E 5P9

Dear Sir:

RE:

Sample Assay Expenditures on Hining Claims S 469265 et al in the Township of Hess.

The Sample Assay Expendituresxassessment work credits as shown on the attached statement have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario H7A 1W3 Phone: 416/965-1380

D. Kinvig:sc

cc: John K. Jasperson Don Kills, Ontario

cc: Resident Geologist Sudbury, Ontario

cc: Hr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

1983 12 20

Your File: 83-20

Our File : 2.5319

Mining Recorder
Ministry of Natural Resources
\$9 Larch Street
Sudbury, Ontario
P3E 5P9

Dear Sir:

RE:

Geological & Geophysical (Electromagnetic, Magnetometer, and Self-Potential) Survey submited on Mining Claims S 469265 et al in the Township of Hess.

The Geological & Geophysical (Electromagnetic, Magnetometer, and Self Potential) Survey assessment work credits as listed with my Notice of Intent dated November 25, 1983 have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phona: '416/965-1330

D. Kinvig:sc

cc: John K. Jasperson 182 Three Valleys Drive Don Hills, Ontario H3A 3L8

cc Resident Geologist Sudbury, Ontario

cc: Kr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario

MUNSTER TWP. M.880 **LEINSTER TWP. M.985** 5 6 \_⊚is 6607 **©** 6605 3 (P) Ø 6603 6641 \$ 471072 (23433 S. C.L.M. 3-133438 1133437 8-154052 168 

TOWNSHIP OF

# **HESS**

M-930

DISTRICT OF SUDBURY

SUDBURY MINING DIVISION

SCALE: I-INCH = 40 CHAINS

## **LEGEND**

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

PATENTED FOR SURFACE RIGHTS ONLY

# FOR ADDITIONAL INFORMATION SEE MAPS: HESS-0026 # (1-8)

469267 LINE-Z Gone Lake Marsh 1 **®** 5600760 S663Z 469265 Geneva Lake Mine, approx. 1/2 miles Field Camp X Marshy Lake Beaver Lake S600759 S6631 Hess Township, Ontario HESS-0026 #1 DATA BY: Scale: 1 inch = 3 chains

25319

€-7 (2)-2 MALIS TOWNS TO THE STATE OF ST ■ Prench, Sit 15b Hyrnt Lande in Johbre 25c Chanschynl in Labbre t min 🔑 Macial tri 77- MASHID BOOK! XX Ar Honor Con Comment 7 Unsablist California (1) - Inches SS EMME CONTRACT 7b Cours - Hell 2e Perch mili Monzovite t min Vandalite Simmer validation nferred  $\frac{1}{2} \frac{1}{2} \frac{1}$ to thept 3 3) F 11 Hess Township, Ontario 2 2) Turner lettery The part of the con-HESS-0026- \$2 10 E 20 A CALL

411145W0024 0026 HESS

S 6633 Gone Lake Marsh. 5600760 S663 Z 469265 Edgiver \$600759 S6681 LEGEND
Instrument: Scintrex MP2
Contein Interval: 2008
Background Datum. 50,0008
Station Interval: Ichain
Line Interval: 3 chains
Base Stations: Lotoo
Station
L 18+00 W
Sta 17+00 N Hess Township, Ontario MAGNETOMETER CONTOUR MAP Scale: linch = 3 chilos

41114SW0024 0026 HESS

2.5319

, 8737 8447 8966 8977 8917 9440 8796 8792 B 9041 8934 13N 4332 9285 11 N 9169 101 ළදුවෙහි 8797 3761 8734 e705- 15 58877 5877 58770 58770 58872 58771 8821 - 25 59071 8701 - 35 - 8117 9112 8828 1 8630 8672 55 - 8795 . 8819 9618- 65 19182 60229 -8769 . 8796 8736 -3757 . 8774 . 8740 - 8729 8569 9841 5855 . 8302 Hess Township, Ontario TOTAL FIELD PROTON PRECESS OF HESS-0026 #4 DATA BY: Jan Bucks DATE: Oct 82 Scale: | inch = 3 chains

25319

Profile Scole JASPERSON PROPERTY HESS-0026 #5 Assumed Conductor Assumed Foundation Assumed French Co. Hess Township, Ontario VLF - Dip Angle

DATA BY: A Howard, T. Buckle DATE: Aug. 182

Scale: I inch = 3 chains

41:145W0024 0026 HESS

240

2 5319

JASPERSON PROPERTY

Hess Township, Ontario

VIF - Field Strength



CONTOUR Interval [
25 millivalts

Base Sta.
Line Sta

18E 12N

16N Hess Township, Ontario 15E. 17E 6 E E 3 W W W 17 W 15 W 15 W SP EQUIPOTENTIAL MAR HESS-0026 #7

2.5319.

Gone TRENCH #6 | \$3942 S663Z ×469265 TREMO + 1,8 \$3948 53951 23954) \$2949 53952 F \$3950 32953 Ca Lake Mine, ) Deaver 8600,75,9 S6631 Hess Tewnship, Intario HESS-0026 #8