



REPORT on the MAGNETIC SURVEY
conducted on the
Topboot Lake Property
of
GLEN AUDEN RESOURCES LIMITED
Swayze and Denyes Townships
District of Sudbury
by
Greg Hodges, B.Sc.

RECEIVED

AUG 1 0 1987

MINING LANDS SECTION

TABLE OF (



Ø10C

PAGE

ABSTRACT	i
INTRODUCTION	1
LOCATION AND ACCESS	1
CLAIM GROUP	1
REGIONAL GEOLOGY	2
PROPERTY GEOLOGY	3
PREVIOUS WORK	7
SURVEY PROCEDURE MAGNETICS Theory	11 13
PERSONNEL AND EQUIPMENT	13
SURVEY STATISTICS	14
INTERPRETATION	14
CONCLUSIONS AND RECOMMENDATIONS	15
REFERENCES	17
CERTIFICATION	
APPENDIX A: Equipment Specifications	
LIST OF FIGURES	
Figure 1 Property Location - Regional Figure 2 Property Location - Local Figure 3 Claim Map	
Back Pocket - Contoured Total Field Magnetic Map	

ABSTRACT

A magnetic survey was conducted on the Topboot Lake property of Glen Auden Resources Limited. The survey outlined much of the geology very well, and detected several anomalies upon which follow-up geophysical surveying (EM and IP) are recommended.

INTRODUCTION

During the period from May 20 to May 30, 1987, a geophysical survey was conducted on the Topboot Lake property of Glen Auden Resources Limited. The survey, conducted by Robert S. Middleton Exploration Services Inc., collected total field magnetics data over the property to aid in geologically mapping the property.

LOCATION AND ACCESS

The property is located on the boundary of Swayze and Denyes Townships in the District of Sudbury, Ontario, 85 kilometers by air southwest of Foleyet, Ontario (Figures 1 and 2).

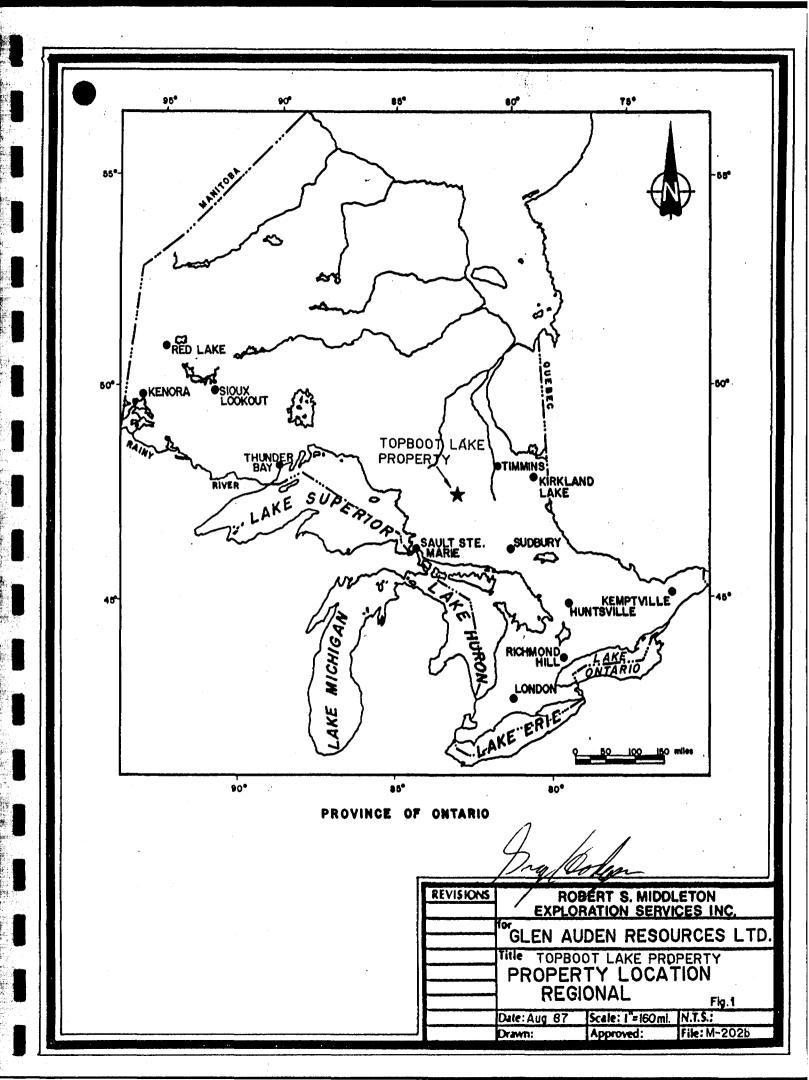
Access to the property was by fixed wing aircraft, from

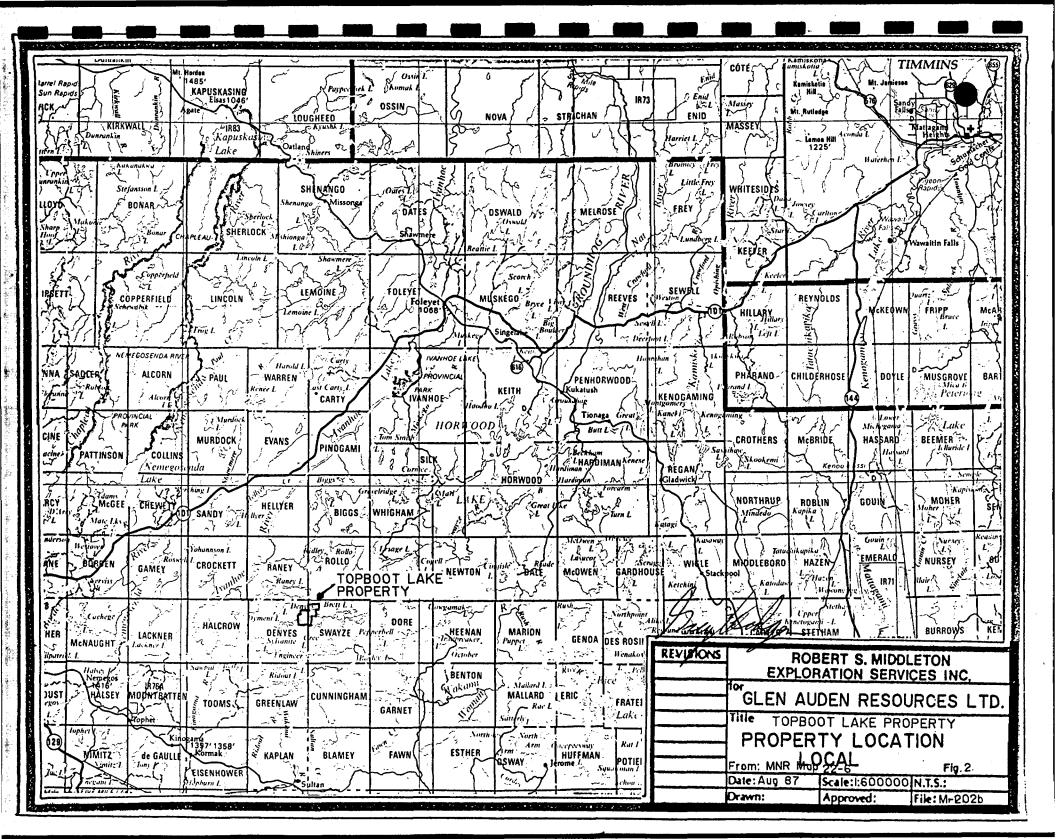
Ivanhoe Lake near Foleyet (Theriault Air) to Swayze Lake.

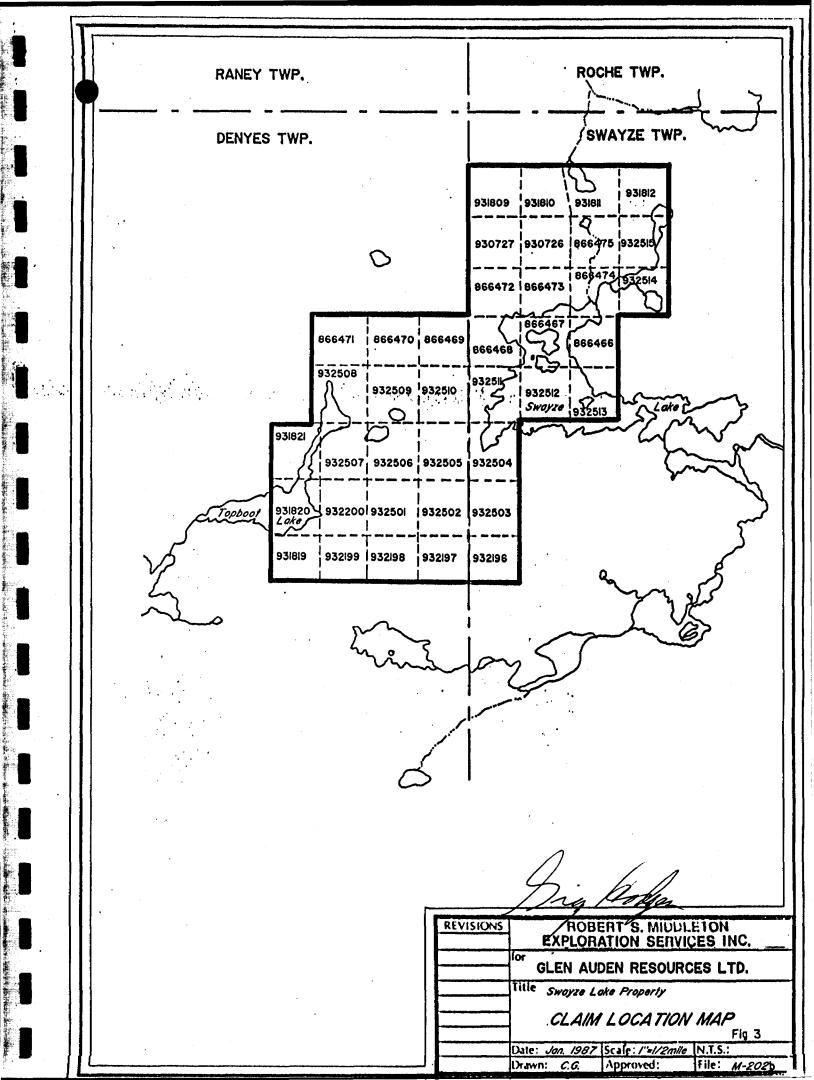
Aircraft could also land on Topboot Lake.

CLAIM GROUP

The property consists of 39 unpatented mining claims in Denyes and Swayze Townships, Porcupine Mining District. (Figure 3)







CLAIM	NO.	RECORDING DATE
DENYES TOWNSHIP		
932501-932502	2	June 12, 1986
932505-932510	6	June 12, 1986
866469-866471	3	June 12, 1986
932197-932200	4	June 12, 1986
931819-931821	$\frac{3}{18}$	June 12, 1986
SWAYZE TOWNSHIP		
932190	1	June 12, 1987
932503-932504	2	June 12, 1987
932511-932515	5	June 12, 1987
866466-866468	3	June 12, 1987
866472-866475	4	June 12, 1987
930726-930727	2	June 12, 1987
931809-931812	4	June 12, 1987
	$2\overline{1}$	•

These claims are held by Glen Auden Resources Limited.

REGIONAL GEOLOGY

The following is quoted from Abernethy, 1987:

"The rocks of the Glen Auden property are part of the east-west trending Swayze greenstone belt, approximately 28 miles long by 18 miles wide. The rocks are all Precambrian in age and are steeply dipping in fold structures, whose axis trend in a sinuous east-west path across the area. Faults and shear zones trend predominantly north to north-west.

The belt shows wide lithologic variety but mafic volcanic flows predominate with volcanic centre felsic rocks and sediments occupying long linear structures towards the centre of the belt. Diabase is rare but several long dikes traverse the belt with a north-northeasterly trending orientation. Ultramafic flows, granitic plugs and iron formation are also found in the belt.

The Swayze belt is truncated in the west by the Kapuskasing structure and to the east bifurcates with one arm trending towards the Porcupine gold camp and the other arm trending towards the Kirkland Lake gold camp."

PROPERTY GEOLOGY

The following is quoted from Abernethy, 1987:

"Rocks on the property consist of mafic to intermediate tuffs, rhyolitic flows, felsic tuffs, quartz-sericite schists, graphitic argillite, arkose, conglomerate, quartz feldspar porphyries The mafic volcanic rocks trend diabase. and east-west and are part of a thick mafic unit that extends across the township and are stratigraphically equivalent to those hosting the

The basalts are typically dark green Kenty Mine. to black, massive or weakly foliated, aphanitic, occasionally pillowed and or brecciated. moderate Alteration consists of to strong chloritic alteration, traces of pyrite with erratic concentrations of up to 1%, moderate to strong calcite alteration and occasional fractures infilled wi th and shears quartz or quartz-carbonate veining. Mafic ash tuffs were intercalated with the flows in thin. found non-continuous units. The tuffs were generally very fine grained with less than 10% angular, mafic. rock fragments in a dark, moderately foliated matrix. No sedimentary structures were observed in these tuffs.

intermediate composition Rocks of recognized in several locations stratigraphically between the mafic flows and felsic tuffs and These rocks were similar porphyries. appearance to the mafic rocks but were generally lighter in colour and were harder due to a more siliceous matrix. The intermediate volcanic rocks were without structure and conformable to the enclosing mafic volcanics.

Felsic volcanic rocks and porphyries of intermediate felsic composition were found in the southern two-thirds of the Glen Auden property which is part of a much thicker synform running east-west through central Swayze, Denyes and Dore Rhyolitic flows were extremely rare. Townships. Rhyolites were recognized by their siliceous, beige appearance and thin laminations which may represent flow banding. Felsic ash to lapilli tuffs were the most common lithologies found on the property. The fragment composition varied from less than 10% clasts to a crowded, fragment supported variety. The matrix composition varied from a beige brown colour to a pale green. Alteration varied greatly in the tuffs as distinct alteration zones were noted. Calcite alteration prevalent with was most widespread zones of calcite enrichment. Calcite. composition varied from 1-2% in some rocks to an estimated 20-30% calcite in the most obviously altered zones. Usually synchronous with calcite alteration was sericite enrichment (0-10%), pyrite (1-4%) and structure such as pervassive foliation shearing. Chlorite alteration was and local

rarely observed but did exist in the more intermediate tuffs.

Crystal tuffs may have been present but were difficult to distinguish from porphyries. quartz-feldspar porphyries were observed to be pink to beige. massive, medium to coarsely crystalline feldspar phenocrysts in an aphanitic green matrix. Close examination of the pale feldspar crystals reveals that they are subhedral zoned to euhedral. phenocrysts that occassionally fractured and cracked. Pyrite is rare in the porphyries.

A thin band of metasediments was found on the west shore of Swayze Lake. The outcrop was best described as an arkosic sandstone or a low density conglomerate, as rare pebble sized, sub-angular fragments were observed in an otherwise rock homogeneous feldspar rich sandstone. Clasts were heterogeneous consisted of mafic and fragments, felsic rock fragments, chert, quartz grains and a soft argillitic looking rock of uncertain composition. Long, thin non-magnetic, formational type conductors trend east-west through the central portions of Swayze Lake and are probably conductive graphite.

The major structural characteristic of the rocks is an east-west schistosity developed in the felsic volcanics and sediments. Weak or no schistosity was found in the mafic volcanics north of Swayze Lake. Pillow top directions indicate tops to be south which is consistent with the hypothesis that a volcanic vent located towards the south extruded a classic mafic to felsic volcanic pile.

All faults and shears and major lineations observed on the property trended in a northeasterly direction. This trend was also observed in the Derrough showing signifying the importance of north-south shears, faults and lineaments."

PREVIOUS WORK

The following is quoted from Abernethy, 1987:

"Assessment file examination reveals that several companies have been active in the area both on Glen Auden ground and properties surrounding it. Little work was done in the area previous to 1931 when a promising discovery of

gold bearing quartz was made by J.G. and J.L. Kenty on the northeast shore of Brett Lake, 4 miles to the east of the property. Considerable prospecting followed this discovery resulting in a number of gold discoveries, including two gold discoveries now located on the Glen Auden property. In the fall of 1932, J.E. Derraugh staked 8 claims within the property boundary, adjoining the eastern boundary of Denyes Township. Trenching of the discovery vein exposed 220 feet of quartz veining and stockwork parallel to a fault striking almost due north and south. M.C. Rickaby examined the discovery in 1934 for the Ontario Department of Mines and described it as an "almost continuous vein of quartz with small quartz veinlets in the footwall. The quartz is in the form of lenses with widths up to 6 feet." A brecciated lamprophyre dike lies long the fault and quartz porphyry dikes intrude the sediments. mineralized "The quartz is wi th pyrite, chalcopyrite, a little galena, and carbonates. Lenses ofvein material with considerable chalcopyrite carry big values in gold, though no native seen." Chip samples taken gold was

continuously across the vein by Rickaby returned the following values in gold:

a)	8	inches,	quartz with heavy sulphides	2.22oz/ton
b)	24	inches,	chiefly quartz	.15oz/ton
c)	36	inches,	altered wall rock	.03oz/ton
d)	56	inches,	quartz	.24oz/ton
e)	24	inches,	quartz	.32oz/ton

As a result of encouraging gold values in this vein Kirkland Hudson Bay Gold Mines Limited put down a series of short diamond drill holes in the winter of 1932-33. A total of 2,000 feet of drilling was completed. Results of the drilling are not known but apparently did not warrant further work and the option was dropped.

Prospecting of the property continued for ten years following the original discovery and spotty records of trenching and blasting assessment exist. Regional airborne electromagnetic and magnetic surveys were flown by several companies and twice by the Ontario Government, in 1964 and 1977.

George Mangotich of Englehart, Ontario staked 21 claims on the present Glen Auden Property in 1975-76. VLF-EM, magnetometer, geological mapping and one diamond drill hole totalling 170' are

recorded The geological map for assessment. presented W.F. Gilman shows rhyolite and bv rhyolitic fragmentals over all of the Mangotich property. The diamond drill hole, drilled due north near the northern boundary of present claim 932508 encountered rhyolite, chert and graphite, with quartz/calcite veining and 1/4" to 1" massive 60 pyrite, diabase and feet of quartz-sericite-feldspar schist injected with quartz-calcite-tourmaline-pyrite stringers. little sampling was performed and no assays were given.

Norminex Limi ted staked three claims straddling the boundary between Swayze and Denyes Townships in 1983. Norminex conducted 1"=400' geological mapping with detailed sampling of several old trenches and a 1"=200' magnetometer assessment credit. The Norminex survey for geologist, J.F. Davies, identified three main of rock; 1) massive fine rhyolite, 2) tuff or porphyritic rhyolite and 3) quartz-sericite schist which probably represents a sheared rhyolite.

The re-sampling of the Derrough trench,

revealed values as low as .01oz/ton in diabase to 1.65oz/ton over 24". Recommendations for systematic re-sampling, lithogeochemical sampling and soil geochemical surveys and four diamond drill holes were never followed up and the property was allowed to come open.

The Canadian Nickel Co. Ltd. staked a large block of claims in Swayze, Dore and Denyes Townships in 1983 covering the northern half of the Glen Auden Property. Geological mapping by B. Bell found variably altered and carbonatized mafic to felsic volcanics, mafic to felsic intrusives, quartzite between the carbonatized mafic volcanics north of Swayze Lake and those hosting the Kenty Mine Prospect and recommended further work."

SURVEY PROCEDURE

MAGNETICS

Theory

The magnetic method is based on measuring alteration in the shape and magnitude of the earth's naturally ocurring magnetic field caused by changes in the magnetization of the rocks in the earth.

These changes in magnetization are due mainly to the

presence of the magnetic minerals, of which the most common is magnetite, and to a lesser extent ilmenite, pyrrhotite, and some less common minerals.

Magnetic anomalies in the earth's field are caused by changes in two types of magnetization: induced and remanent (permanent). Induced magnetization is caused by the magnetic field being altered and enhanced by increases in the magnetic susceptibility of the rocks, which is a function of the concentration of the magnetic minerals.

Remanent magnetism is independent of the earth's magnetic field, and is the permanent magnetization of the magnetic particles (magnetite, etc.) in the rock. This is created when these particles orient themselves parallel to the ambient field when cooling. This magnetization may not be in the same direction as the present earth's field, due to changes in the orientation of the rock or the field.

The most common method of measuring the total magnetic field in ground exploration is with a proton precession magnetometer. This device measures the effect of the magnetic field on the magnetic dipole of hydrogen protons. This dipole is caused by the "spin" of the proton, and in a magnetometer these dipoles in a sample of hydrogen-rich fluid are oriented parallel to a magnetic field applied by an electric coil surrounding the sample. After this magnetic field is removed, the dipoles begin

to precess (wobble) around their orientation under the influence of the ambient earth's magnetic field. The frequency of this precession is proportional to the earth's magnetic field intensity.

Field Method

The magnetics data were collected with a proton precession magnetometer, which measures the absolute value of the total magnetic field of the earth to an accuracy of ± 1 n Tesla. The magnetometer is carried down the survey line by a single operator, with the sensor mounted on a short pole to remove it from the surface geologic noise. Readings are normally taken at 25 m intervals, and at 12.5 m intervals where the operator observes a high gradient (anomaly).

The readings are corrected for changes in the earth's total field (diurnal drift) by measuring and recording the drift with a stationary (base station) magnetometer. This recorded drift is then applied to the data as a correction.

PERSONNEL AND EQUIPMENT

A crew of two men was provided by Robert S. Middleton Exploration Services Inc. to complete the magnetic survey. The instrument used was an EDA Instruments PPM-350 total field magnetometer with a PPM-400 base station magnetometer. (Specifications in Appendix A).

The crew was accommodated in a camp on Swayze Lake, established by Middleton Exploration.

SURVEY STATISTICS

The magnetic survey covered a total of 28 line km of grid. Production was hampered by several rain days.

INTERPRETATION

The magnetic survey served well to outline the contact between the acid volcanics to the south and mafic volcanics to the north. From the magnetics it is obvious that the contact is not smooth, but rather is faulted and broken. The area of contact is roughly along a line from 200N on L700E to 900N on L100W.

Two hundred meters south of the contact and parallel to it, a conductor is indicated on the Ontario Geological Survey Airborne Electromagnetic Survey map sheet 80541. There is no evidence of a magnetic anomaly coincident with the conductor.

A weak series of anomalies trends from 450W on TL500S at least as far as 150N on L400E. This anomaly is coincident with a swamp-filled bedrock trough, which in turn is a result of a fault (R.K. Abernethy personal communication 1987). The magnetic anomaly is most probably caused by minor amounts of pyrrhotite mineralization in the fault, or by narrow diabase intrusions in

the fault. The pyrrhotite mineralization model seems more probable, in which case there is almost certainly other sulphides, such as pyrite in greater concentrations. (The conductor was probably not detected by the airborne survey because of its orientation parallel to the flight lines).

The trend of strong magnetic lows from the south end of L300E to the north end of L600E is unusual, but from the detailed geological survey (R. Abernethy, unpublished report, personal communication) it appears to coincide with several outcrops of diabase. The most probable model is that the anomaly is caused by a diabase dike with strong permanent magnetization in a direction opposing the earths magnetic field.

CONCLUSIONS AND RECOMMENDATIONS

A detailed geologic mapping survey was completed soon after the magnetic survey, and so does not need to be recommended here. An electromagnetic survey is recommended as the next step.

The best equipment for such a survey would be a horizontal loop (Slingram) system such as the Apex Parametrics Max Min II.

A VLF-EM system would not be recommended, due to its sensitivity to changes in overburden depths. The VLF system would produce a response to the overburden troughs, without positively detecting a bedrock conductor under it.

An induced polarization survey is recommended, both in

detail over areas indicated by the previous work and as a reconnaissance tool. The IP survey would be effective at detecting disseminated metallic mineralization, and would be useful in defining faults under the overburden valleys because of its depth resolution.

Follow-up diamond drilling or trenching would be decided after these surveys are completed.

Respectfully submitted

Greg Hodges, B.Sc. Geophysicist

REFERENCES

ABERNETHY, R.K. 1987

REPORT ON THE PROPERTY OF GLEN
AUDEN RESOURCES LIMITED, SWAYZE
AND DENYES TOWNSHIPS, PORCUPINE
MINING DIVISION, DISTRCIT OF
COCHRANE. Porcupine Mining
Division Assessment Files (Timmins)

CERTIFICATION

- I, D. Greg Hodges, of 136 Cedar Street South, in the city of Timmins. Province of Ontario, certify as follows concerning my report on the GLEN AUDEN RESOURCES LIMITED Topboot Lake property in Swayze and Denyes Townships, Province of Ontario and dated August 6, 1987:
 - 1. I am a member in good standing of the Society of Exploration Geophysicists
 - 2. I am a graduate of Queen's University at Kingston, Ontario, with a B.Sc. (Hons.) Geological Sciences with Physics, obtained in 1980.
 - 3. I have been practising in Canada, and occasionally in the United States, Europe, and Australia for the past seven years.
 - 4. I have no direct interest in the properties, leases, or securities of GLEN AUDEN RESOURCES LIMITED, nor do I expect to receive any.
 - 5. The attached report is a product of:
 - a) Examination of data included in the report which was collected on the property concerned.

Dated this August 6, 1987 Timmins, Ontario

D. Greg Hodges, Geophysicist

2.5919 2.5919 $\underline{A} \quad \underline{P} \quad \underline{P} \quad \underline{E} \quad \underline{N} \quad \underline{D} \quad \underline{I} \quad \underline{X} \qquad \underline{A}$

omewae ppw-350 rotal Field Magnetometer





The PPM-350 is the latest addition to EDA's OMNIMAG*™ series of magnetometers and gradiometers. It is engineered to provide users with the latest state-of-the-art advances in microprocessor technology, including many features that are unique in the field.

Major benefits and features include:

- Significant increase in productivity
- Lowered survey costs
- Automatic diurnal correction
- Programmable grid coordinates
- Highly reproduceable data
- Ergonomic design
- Simplified fieldwork
- Computer-compatible



Specifications

Dynamic Range Sensitivity Statistical Error Resolution standard Memory Capacity **Absolute Accuracy**

Display Resolution Capture Range

Display

Gradient Tolerance Sensor

Sensor Cable

Operating Environmental Range

Power Supply

Battery Cartridge Life

Weight and Dimensions Instrument Console only Lead Acid Battery Cartridge Sensor

Bystem Complement

18,000 to 93,000 gammas ±0.02 gamma 0.01 gamma 1383 data blocks or readings ±15 ppm at 23°C, 50 ppm over the operating temperature range 0.1 gamma ±25% relative to ambient field strength of last stored value Custom-designed, ruggedized liquid crystal display with an operating temperature range from -35°C to +55°C 5,000 gammas per meter Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy Remains flexible in temperature range: includes low strain connector -35°C to +55°C; 0-100% relative humidity; weather-proof Non-magnetic rechargeable sealed lead acid battery cartridge or belt; or, Disposable "C" cell battery cartridge or belt 2.000 to 5.000 readings, depending upon ambient temperature and rate of readings

3.4 kg, 238 x 150 x 250 mm 1.9 kg 1.2 kg, 56 mm diameter x 200 mm Electronics console; sensor with 3-meter cable; sensor staff; power supply: harness assembly: operation manual.

EDA is a pioneer in the development of advanced geophysical systems and has created many innovations that increase field productivity and lower survey costs.

EDA's OMNIMAG series consists of the PPM-350 Total Field Magnetometer, PPM-400 Base Station Magnetometer, and the PPM-500 Vertical Gradiometer. Contact us now for details.

E D A Instruments Inc. 1 Thorncliffe Park Drive Toronto, Ontario Canada M4H 1G9 Telex: 06 23222 EDA TOR Cable: Instruments Toronto (416) 425-7800

In U.S.A. E D A Instruments Inc. 5151 Ward Road Wheat Ridge, Colorado U.S.A. 80033 Telex: 00 450681 DVR (303) 422-9112

Printed in Canada





Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Torri



Mini

41015SE0056 2 10272 SWAY7E

900

Type of Survey(s)					Township o		_			
Claim Holder(s) GLEN AUDEN RES Address STE 500, 67 Ki Survey Company ROMERT S. MIDDLETS Name and Address of Author to	GNETOMETER				UEN	175€ 1	Twe			
Claim Holder(s)						YSE TWA Prospector's Licence No.				
GLEN AUDEN RES	ources tra.			·····			1915			
Address Con Con Con	C 1			0	Mell	17				
Survey Company	CHMONN ST. L	<u> </u>	DRUMTO,	Date of Survey	(from & to)	125	Total Miles of line	Cut		
Poses (Missiera	F 4 45.	Sea	in lose	20 5	30	5 87	28.5 K	- 1		
Name and Address of Author (o	f Geo-Technical report)	Jeno	icas inc.	Day Mo.	Tr. Day T	VIO. [Yr.]	20-7 11	<i>Z</i> Y		
D. GREG Honges	P.O. Box 11	37 Tu	nomes 6	DATAGO				į		
Credits Requested per Each (Claim in Columns at ri	ight ,	Mining Cla	ims Traversed (1	List in nume	rical seque	nce)	-		
Special Provisions	Geophysical	Days per Claim		ning Claim	Expend. Days Cr.		ining Claim	Expend. Days Cr.		
For first survey:	£(Ciaiiii	Prefix	Number	Days Cr.	Prefix	Number	Days Cr.		
Enter 40 days. (This	- Electromagnetic		P	866468						
includes line cutting)	- Magnetometer	40		866469]			}]		
Carrier de la distance de como de la como de	- Radiometric					A-C-H-V-F				
For each additional survey: using the same grid:			1-	866470						
Enter 20 days (for each)	- Other			866471						
	Geological			866472						
	Geochemical									
Man Days		Days per	1366	93/8/9	 	1 4 1 2				
	Geophysical	Claim		931820						
Complete reverse side	- Electromagnetic		44.	431821		416.00 000.00				
and enter total(s) here					 					
RECE	I Vienometer		_	932 196	<u> </u>					
	- Radiometric			932197						
JUL 1	4 1987									
			and is	932198	 					
MINING LAN	DS SECTION			932199	<u> </u>					
Militar mar	Geochemical		31/2	932200						
Airborne Credits		Days per								
		Claim	1 33.1	932501		2004				
Note: Special provisions credits do not apply	Electromagnetic			932502						
to Airborne Surveys.	Magnetometer			932503						
	Radiometric		33.3							
Expenditures (excludes powe		<u></u>	-	932504						
Type of Work Hertogreen	DO DESTINA			932505			- Dettila			
DEC	EIME			932506	R	ECU	用心证的			
Performed on Cair		1		932507						
JUN	0 300					PIRN ROLL	09 1987			
						20014	1) 92 35 2			
Calculation of Expenditure Days	Credits	Total				}				
Total Expenditures		Credits				Total pun				
\$	÷ 15 =]]				Total nun	nber of mining			
							vered by this	20		
Instructions Total Days Credits may be ap	portioned at the claim h	older's						-		
choice. Enter number of days in columns at right.	credits per claim selecte	ed		For Office Use C		TRANCE	tale I			
in colonias ac rigina			Recorded	Ino 9		Mining Re				
Date / / Rec	corded Holder or Agent (S	Signature)	800	Pate Approved		Branch Di				
8/1/87	Brukelen	_	مرو ا					;		
Certification Verifying Repo			<u> </u>			· · · · · · · · · · · · · · · · · · ·				
I hereby certify that I have a or witnessed same during and	personal and intimate kr	nowledge of and the anne	the facts set fo	orth in the Report true.	of Work annex	ked hereto,	having performed	the work		
Name and Postal Address of Peri	on Certifying			7	0 -	Λι	. 7. 10			

October 7, 1987

Your File: 131/87 Our File: 2.10272

Mining Recorder
Ministry of Northern Development and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: Notice of Intent dated September 21, 1987
Geophysical (Magnetometer) Survey on Mining Claims
P 866468 et al in Denyse Township

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

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

Yours sincerely,

R.M. Charnesky (Mrs.)
Acting Manager
Mining Lands Section
Mineral Development and Lands Branch
Mines and Minerals Division

Whitney Block, Room 6610 Queen's Park Toronto, Ontario M7A 1W3

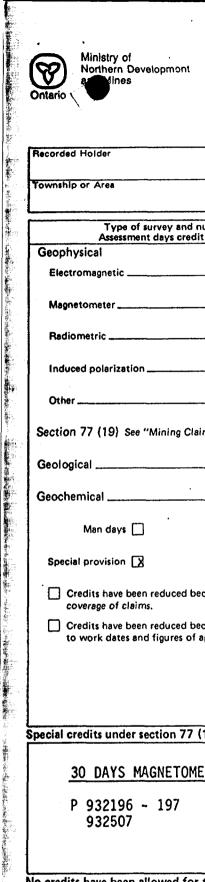
Telephone: (416) 965-4888

RM:p1

cc: Glen Auden Resources Ltd.
Suite 500
67 Richmond Street West
Toronto, Ontario,
M5H 1Z5

Mr. Greg Hodges P.O. Box 1637 Timmins, Ontario P4N 7W8 Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario

Resident Geologist Timmins, Ontario



Technical Assessment Work Credits

		File				
		2.10272				
Dete	Mining R	Mining Recorder's Report of Work No.				
September 21, 1987	131/87					

Recorded Holder GLEN AUDE	N RESOURCES LIMITED	· · · · · · · · · · · · · · · · · · ·
Township or Area DENYSE TO	√NSHIP	
Type of survey and number of Assessment days credit per claim		Mining Claims Assessed
Geophysical		
Electromagnetic days		
Magnetometer days	P	866468 to 470 inclusive 866472
Radiometric days		932200 932501 to 932506 inclusive
Induced polarization days	•	
Other days		
Section 77 (19) See "Mining Claims Assessed" column		
Geologicaldays		
Geochemicaldays		
Man days Airborne		
Special provision X Ground X		;
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	
30 DAYS MAGNETOMETER	20 DAYS MAGNETOMETER	10 DAYS MAGNETOMETER
P 932196 - 197 932507	P 866471	P 932198
No credits have been allowed for the following mining		
not sufficiently covered by the survey	insufficient technical data filed	
P 931819 to 821 inclusive 932199		

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; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

Raney Twp. M.1069 A17187 606475 894533 894537 1028602 1028603 1628004 606 170 894530 894534 894538 894587 ORDEOS ALAN 1025616 9/739/ 1028620 1025619 117392 025624 1026623 1025627 1025621 1025547 1025548 1025549 1025550 1028551 1028552 1025553 6-6-87 60636 606496 606497 606498 60649 1025569 1025569 Description of the property of 1025076 1025575 1025574 1025319 1025319 10252819 8 8070509 3 5000 1020290 1020200 1406458 65 56-1 606460 606461 606462 JIOZERES (6394) 1639640 3964 / 39635 139630 72435 407672 1025308 102508 1 1026341 1026300 1026289 1026292 1026288 1026286 1026282 1026279 1026277 1026274 1026278 1639634639631 6396301 pa4367 784260 907626 917241 807633 9076201 907633 917238 1 lossage l lossait -1026275 1026272 1026271 DESCRIT DESCRIPTION DESCRIPTIO 239633 1, 39632 1639621, 779774 799715 1988138 799717 16624 807634 977236 1025307 1025316 917369 917351 917351 717850 19/1349 100 91720 1 615998 917235 615777 1025308 1545948 616909 1025308 1547 9/1858 9/7357 9/7356 917355 9/7354 9/7721 9/7224 9/7224 9/7224 9/7224 6/5308 6/5308 6/5394 6/5394 6/5394 6/5394 2M+2ena-9/7 365 90369 116-3 9/7224 9/7231 1-16-3 6-16-20 1/7231 1-16-20 1/7231 5741 - TS14X1 197844 19784541797846V 183644 7.798 18 1757423 757425 157428 1971018 797050 797041 147847 177836 1777837 17836 1797807 17860 1797807 148136 1798126 1 18036 757424 757429

THE TOWNSHIP

DENYES

DISTRICT OF SUDBURY

PORCUPINE MINING DIVISION

SCALE: 1-INCH = 40° CHAINS

LEGEND

PATENTED LAND	
CROWN LAND BALE	:
LEASES A A CONTRACTOR OF THE PROPERTY OF THE P	
LOCATED LAND	
LICENSE OF OCCUPATION	
MINING RIGHTS ONLY	12
SURFACE RIGHTS ONLY	. <u>\$</u>
ROADS TO A TO THE STATE OF THE	MEN COMMO
IMPROVED ROADS	make compress
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	100
MINES	
CANCELLED	
PATENTED FOR, S.R.O.	

NOTES

400 surface rights reservation along the shores of all lakes and rivers

職 L, U. P.



Received Jan. 4/30

PLAN NO. W. TO

ONTARIO

MINISTRY OF NATURAL MESOLECES

SURVEYS AND MAPPING BRANCH . . .

Ŏ6

Greenlaw Twp. - M.895

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY

S.R.O. - SURFACE RIGHTS ONLY

M.+ S. -- MINING AND SURFACE RIGHTS

i.		}~	- I	ım	7		21	M		<i>a</i> r	3	М.				4 M.))	·.	5 M.	**				
P	P	P •	1P .	P 14	7/12/12	P P 4	9/72//	P4112/0	000 P8T	j (j p89450)	1 -84458X	La	844580	0394 80777	1013917 -454-17		 	S .]• \$	8	Polysia N	p 	122224	24M
#07118 P	P	(60 <u>2137</u>	607128	107138	P	P) 400543 -	588862 P	P	\$86060 P	1 8040174	#08-127	IP TP	hoiseis	I COSTET		_ 679#3 0	20890	21425	21424	375244	3.	0.	
93(809	93 810 \ 603131	131811	607100	1917205	9/7206	9/7207	917208	9/7/04	loff 574 Lorend	1644116	1814577 603078	894578	89¥579 600180	899770	899 273 000 120	15411843	- P	P	20704	20707	20710	20713	20716	
P 130727	P 930126	COTIDE	'Y.	المستوسا فدا	9/7203	# 4/7202	9/720	р 1 <i>894400</i>	B44574	BEYETE FEOGRAM	894671 995077		844570	605/58 TORESIS	94748 84748	- 614.70	878238 		20703	3, 2070		20712	20718	
807417-	407 22 P 844473		143 6: 4	P	394596	p	P	P	AMS65		1804547	10000	1 000100	' mdaig	317107	M - 1	B75236	870235	•	3	9 20700	20711	8. 20714	,
207448	607103	SOUTH DATE	- Area	1894 645	-606274	107427/	1879270	404340		5	يىل	<u></u>		1		183957	1075234	575233	20702	20705	1.00		+	7
# C T O S O	5000	816466		1894594	894593	814592	1894591	894590	1894564 	B944	Man sight		844560	894128	894527	894526 40	4525 60	San T	Sway			9440 10 1000300		-23M
p - 5	Swoyze	114511		L	,)	1			99458G	A	# - B - W	- 45	-		Value .		P CONTRACTOR	Na Principal		A A	ckerma		
2042784	132 \$12 Loke		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	~~~ ~~~					ر کو۔۔ یا			err	96086 9	96087 99	6088	99608	0 99601	1 99609 1 99609	3	azi amo	م لوي	1600	96098	
100018	1		- (~)	\		Morre	5	1	er da		\supset	Loke	96091	anban as	M. 6608	Page Dogg	B98101		9960	996	05 99	esios 11	996107	
P:] 	, , , , , , , , , , , , , , , , , , ,		3	P	• • • •			3	1	~~~	• •	2 9		X	-	P	P P) P			1
91363 660674	 			4	رسم ر	, (9500	8109		900	996			996	6_ p	647	99616	221
175%	 						?					تهمر				99682			5 968	0 7	P 251	6128		
P 1025254	P 1025255	1 "\a\ 	ښې	لركو د	2	4	N 1 4	•		4 - 15 - 2	f.		9619 96	SIZO DE	MG(R)	94 94891	967134 . P	7		BOTES			96129	
P	10g8e58		*	10			· · · · ·					7	998130	0110	15 I HA	المراه المالم	B9925	300AF	439880	430488	-	T1 T1 '	996133 C	
12.72	ريوروا	*	ļ _p	٠, -	-	\bigcirc			. , O		كيرسر			19432 19432 1634775	73 19431 43443	72 694848 6344				987128	96712			}
1020260	5025261	1052565	102526	1085284	1025265	1 1			13/5		8		96138	61.20 J. 18	96140	996141 19961	996	13 09614				98147	996148 996148 (**)	1
1025271	P.,	P 1025269		TP	W (1025266	1933.44			150		T . T		1634477	Dogg	John 13	μM ₁		A 99615	- Dode	996	45¥	3.2		ŹIN
P a	P	P	P	7 -		JP -	P	 P	P	10	P	-	Se	<u> </u>		996		57 9961	996	.Q		ريا . 1 ازدرا	24122	
015900	ا لـــا	1 1		1 5 1	01020277	732 019	932064	933647 019330	912066	932065	50 S	arion P	1932062 1 816000	13204	0.000	996055 9960					\mathcal{M}	، حاج		1 A
O25283	P 1025262	102528	P 1025280	62327	1025278	732077	132039	732079 132079	P 2080	912081 016087	1018024-	11128,	112081	713085	99 6161	Decies 1996	<u> </u>	996	65 19964	53/18	724		3 4124	44
P	P. 3	P .	P	P 3	م ا	<u>عق المح</u>	+	Freymon	d P L.		(P	P Ta	P. 10, 15	F 3	F- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	906	7) 996	18 9941	73 996	N74 9	96178	00476	
4+5985	615050	996297	996302 416968 T. T. T.	996307	P10206	-el-850-	615046	\$1.50.40	414934			-	995607	995608	T alsosa	996169 906	"O	}) \9)		Δ		
1025287	1 7 1	996296	99650	996306	99631	1996313	9963 4	996315	996316 \$18934	9965 7 - } 72.//2 614930	946509	995410 1992-110	99568 01591 1	995612 614994	996177 915038	9961 9961	79 79	1996	e t (40 5)	996	֓֟֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	98184	2	20
ρ, '	F	9,96295/	~ 19 96300	וספטוטי	P 9963		P 996321	. ~ ~ ~ •		-	`	,	P. C.	P	995621	љ	5023	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	WOK		- - \ - 16	P., "		
015967	013178	6100 75	615070	U	120 9 9 8	129 988	138	آ (رین)		2003la	010921 -	095814	010 9 12	013003	016800	(1) 610094 010				The same	>/^)	
-C-+-5-9-0-1		896294	996299 \$15971	ي ا	123 PS	-1-	$\sim \sim$	10/10/10	919121 919121	998324	995617	995618 010919	295619 1616914	99 320	0.002	190000	5576 5000	• • •		2	1		p.	₽.
·	الے ک		Cles	6298	7		''∖∖lp	ا الو		ے' کے ا	I P	7 5	13,6	ار کر ا	(R 77 7		0005	- %		0~			C	\ \!
0064 426	463. 086	***	TE ON	, in	100		1400 418	**** K	779980	770090	340049	740050	7400 59	740078	740073	740004	7. Tu	2084	0098			\sum_{i}		
1464	866 R26	\$47 F26	1800 A	9407 -44	masi (1+2	101	401-1	1 A	779980	799000	7400 97	740087	Tagah	740071	740074	740003 74	0006 74	0093	144-14	988186 P.		336183	4-14-2	\perp
		> ₽\	1. 1. 3.		17.72	为。	5 \ "			P	P		7		P	10	(<u>P</u> .	-/=;}	300	80460 4	60470		Perotta	
79956 P	779961 P	779962 P	779967 P. 64	779968 P	779978	778974	770979	779982	770007	799007	740040	740056	7+0061	740070	740075	740002 74	DOB7 740	計	0097 70	T T T T T T T T T T T T T T T T T T T		986	(
779957	779960	770963	779966	770069	779 972	770976	[√″] 77997#	778983	779984	799008	774644	740055	740062	740069	740074	[74008] TA		7 I I)		3.814	98692 (131210	Catala	ዛ
	P	770964			10	Pa	P	P	P	P	F	ip .		P	P	P	- P	7~47	PIP	0100	• 5	6-100-7-1 (5-10-)		Α.
779958	779956		770000	779970	770971	770976	778977	779984	7	ľΔ÷	1740000	740084	740065	740068	740077	740080	المركز المركز	74 086	0099	76009(,	gamani Terapaga	*****	

Cunningham Twp:

LEGEND

HIGHWAY AND ROUTE No.	- ♦
OTHER ROADS	· ====
TRAILS	
SURVEYED LINES:	
TOWNSHIPS, BASE LINES, ETC.	
LOTS, MINING CLAIMS, PARCELS, E	TC
UNSURVEYED LINES:	
LOT LINES	-
PARCEL BOUNDARY	<
MINING CLAIMS ETC.	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	·
NON-PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	****
SUBDIVISION OR COMPOSITE PLAN	mmm
RESERVATIONS	
ORIGINAL SHORELINE	*******
MARSH OR MUSKEG	4
MINES	N
TRAVERSE MONUMENT	

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS QNLY	
" , MINING RIGHTS ONLY	C
LEASE, SURFACE & MINING RIGHTS	
". , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	O
RESERVATION	0
CANCELLED	
SAND & GRAVEL	•
tion on the state of the state	
NOTE: MINING RIGHTS IN PARCELS PATENTED F 1913, VESTED IN ORIGINAL PATENTEE LANDS ACT, R.S.O. 1970, CHAP, 380, SE	BY THE PUBLIC

		7 4.	700 1 1	· .	
$\sim \Delta$	16.1	INCH	= 40 /	'LL A	INIC

	FEET	1000	2000	• * * * * * * * * * * * * * * * * * * *	4000	8000	8000
,		200		1000		2000	
,	METRES		o Aslanti. Na Seriebe	I KM)	(2 KM)	

M.N.R. ADMINISTRATIVE DISTRICT

CHAPLEAU

MINING DIVISION

PORCUPINE
LAND TITLES / REGISTRY DIVISION SUDBURY



Ministry of Land
Natural Management
Resources Branch

Date MARCH, 1985

DECENVED

OCT 21 BM

