



42A11SW0075 2.12415 JESSOP

010

Electromagnetic Survey

on

Sheridan Claims

Jessop Township

Porcupine Mining Division  
Ontario

Timmins, Ontario

April 26, 1989

RECEIVED

APR 28 1989

MINING LANDS SECTION



42A116W0075 2.12415 JESSOP

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Electromagnetic Survey 1 in. = 200 ft ( in back pocket)	
Appendix "A" Max Min II Data Sheet	

### Summary

The contiguous 20 claim group grid cut previously with north-south picket lines at 300 foot spacings normal to the assumed strike of the underlying rocks was renewed.

An electromagnetic survey was carried out with readings taken at 100 foot station intervals using a coil separation of 200 feet.

The electromagnetic response is fairly uniform over the entire property. One very weak short conductor is indicated in the south-east corner of the property. This conductor should be rechecked using 300 foot coils separation. Overburden could be deep in this area.

### Property

The group consists of 20 contiguous claims numbered P915990, P917026 to P917036 and P923462 to P923469.

### Location and Accessibility

The property is situated in the extreme north-east corner of Jessop Township, Porcupine Mining Division of Ontario.

Access is made to the north-east corner of the group 1 mile west from a point off Hwy 655, 12.5 miles north of the Hwy 101 junction.

### General Geology

There are no rock outcrops on the property.

Map 2005 the Timmins-Kirkland Lake Geological Compilation Series - shows the claims area to be underlain by Early Precambrian Metavolcanics and Metasediments.

Mafic flows and pyroclastic rocks were intersected in a hole drilled some time ago in the north part of the group.

A thicker bed of felsic metavolcanics south of the above unit(s) is interpreted from airborne geophysical results.

A north west striking fault off the west part of the group transects the above rocks. Metasediments ( also deduced from airborne geophysical results ) lie west of this fault.

#### Electromagnetic Survey

The property was surveyed on 100 foot station intervals utilizing the Apex Max Min II Portable E. M. System with coils separations of 200 feet.

One very weak short conductor is indicated in the south-east corner of the property. This conductor should be re-checked using 300 feet coils separation in this area of deep overburden.

( see instrument details - Appendix A )

#### Conclusions

One short very weak conductor is detected in the south-east corner of the property. This feature should be re-checked using 300 foot coils separation. Overburden could be quite thick in this area.

Respectfully Submitted,



C. F. Desson

# APEX

# MAXMIN I PORTABLE EM

The MaxMin I ground EM System is designed for mineral and water exploration and for geoenvironmental applications. It is an expansion of the highly popular MaxMin II and III EM System concepts. The frequency range is extended to seven octaves from four. The ranges and numbers of coil separations are increased and new operating modes are added. The receiver can also be used independently for measurements with powerline sources. The advanced spheric and powerline noise rejection is further improved, resulting in faster and more accurate surveys, particularly at larger coil separations. Several receivers may be operated along a single reference cable.

Mating plug in data acquisition computer and cassette unit are available for use with the MaxMin I for automatic digital data acquisition and processing. These units are covered in separate data sheet.



# MAXMIN I SPECIFICATIONS:

<b>Frequencies:</b>	110, 220, 440, 880, 1760, 3520, 7040 and 14080 Hz, plus 50/60 Hz powerline frequency (receiver only).	<b>Signal filtering:</b>	Powerline comb filter, continuous spherics noise clipping, autoadjusting time constant and other filtering.
<b>Modes:</b>	<p>MAX 1: Horizontal loop mode (Transmitter and receiver coil planes horizontal and coplanar).</p> <p>MAX 2: Vertical coplanar loop mode (Transmitter and receiver coil planes vertical and coplanar).</p> <p>MAX 3: Vertical coaxial loop mode (Transmitter and receiver coil planes vertical and coaxial).</p> <p>MIN 1: Perpendicular loop mode 1 (Transmitter coil plane horizontal and receiver coil plane vertical).</p> <p>MIN 2: Perpendicular loop mode 2 (Transmitter coil plane vertical and receiver coil plane horizontal).</p>	<b>Warning lights:</b>	Receiver signal and reference warning lights to indicate potential errors.
<b>Coil separations:</b>	<p>12.5, 25, 50, 75, 100, 125, 150, 200, 250, 300, &amp; 400 metres (standard).</p> <p>10, 20, 40, 60, 80, 100, 120, 160, 200, 240 &amp; 320 metres [selected with grid switch inside of receiver].</p> <p>50, 100, 200, 300, 400, 500, 600, 800, 1000, 1200 &amp; 1600 feet [selected with grid switch inside of receiver].</p>	<b>Survey depth:</b>	From surface down to 1.5 times coil separation used.
<b>Parameters measured:</b>	<p>In-Phase and quadrature components of the secondary magnetic field, in % of primary (transmitted) field.</p> <p>Field amplitude and/or tilt of 50/60 Hz powerline field.</p>	<b>Transmitter dipole moments:</b>	<p>110 Hz: 220 Atm<sup>2</sup>    1760 Hz: 160 Atm<sup>2</sup></p> <p>220 Hz: 215 Atm<sup>2</sup>    3520 Hz: 80 Atm<sup>2</sup></p> <p>440 Hz: 210 Atm<sup>2</sup>    7040 Hz: 40 Atm<sup>2</sup></p> <p>880 Hz: 200 Atm<sup>2</sup>    14080 Hz: 20 Atm<sup>2</sup></p>
<b>Readouts:</b>	Analog direct readouts on edgewise panel meters for in-phase, quadrature and tilt, and for 50/60Hz amplitude. [Additional digital LED readouts when using the DAC, for which interfacing and controls are provided for plug-in].	<b>Reference cable:</b>	Light weight unshielded 4/2 conductor teflon cable for maximum temperature range and for minimum friction. Please specify cable lengths required.
<b>Ranges of readouts:</b>	Analog in-phase and quadrature scales: 0 ± 4%, 0 ± 20%, 0 ± 100%, switch activated. Analog tilt scale: 0 ± 75% grade. [Digital in-phase and quad. 0 ± 102.4%].	<b>Intercom:</b>	Voice communication link provided for operators via the reference cable.
<b>Readability:</b>	Analog in-phase and quadrature 0.05% to 0.5%, analog tilt 1% grade. [Digital in-phase and quadrature 0.1%].	<b>Receiver power supply:</b>	Four standard 9V batteries (0.5Ah, alkaline). Life 30 hrs continuous duty, less in cold weather. Rechargeable battery and charger option available.
<b>Repeatability:</b>	± 0.05% to ± 1% normally, depending on frequency, coil separation & conditions.	<b>Transmitter power supply:</b>	Rechargeable sealed gel type lead acid 12V-13Ah batteries (4x6V-6 1/2 Ah) in canvas belt. Optional 12V-8Ah light duty belt pack available.
		<b>Transmitter battery charger:</b>	For 110-120/220-240VAC, 50/60/400 Hz and 12-15VDC supply operation, automatic float charge mode, three charge status indicator lights. Output 14.4V-1.25A nom.
		<b>Operating temp:</b>	-40 to +60 deg.C.
		<b>Receiver weight:</b>	8 kg, including the two integral ferrite cored antennas (9 kg with data acq. comp.)
		<b>Transmitter weight:</b>	16 kg with standard 12V-13Ah battery pack. 14 kg with light duty 12V-8Ah pack.
		<b>Shipping weight:</b>	59 kg plus weight of reference cables at 2.5 kg per 100 metres plus other optional items if any.
		<b>Standard spares:</b>	One spare transmitter battery pack, one spare transmitter battery charger, two spare transmitter retractile connecting cords, one spare set receiver batteries.

Specifications subject to change without notification.

## APEX PARAMETRICS LIMITED

P.O. Box 818, Uxbridge  
Ontario, Canada L0C 1K0

Telephones: 416-640-6102  
416-852-5875

Cables: APEXPARA TORONTO

Telex: 06-966625 APEXPARA UXB



Ministry of Northern Development and Mines

Work

(Geophysical, Geological, Geochemical and Expanded)

DOCUMENT W 8906



42A11SW0075 2.12415 JESSOP

900

W 8906-232

Mining Act 2-10-110 - Do not use shaded areas below.

Type of Survey(s) <b>Geophysical</b>		Township or Area <b>Jessop Tp</b>	
Claim Holder(s) <b>Mr. J. P. Sheridan</b>		Prospector's Licence No. <b>M15350</b>	
Address <b>150 York St. Suite 1814 Toronto, Ont M5H 3S5</b>			
Survey Company <b>Diepdaume Mines Ltd</b>		Date of Survey (from & to)	
		Day   Mo.   Yr.   Day   Mo.   Yr.	
		<b>03 89   7 04 89</b>	
Total Miles of line Cut <b>24.25</b>			
Name and Address of Author (of Geo-Technical report) <b>C F Desson Box 1392 Timmins, Ont P4N 7N2</b>			

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	<b>20</b>
	- Magnetometer	
	- Radiometric	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	- Electromagnetic	
	- Magnetometer	
	- Radiometric	

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P	915990				
	917026				
	917027				
	917028				
	917029				
	917030				
	917031				
	917032				
	917033				
	917034				
	917035				
	917036				
	923462				
	923463				
	923464				
	923465				
	923466				
	923467				
	923468				
	923469				

RECORDED  
APR 10 1989

Expenditures (excludes power stripping)

MINING GEOLOGICAL SURVEY  
ASSESSMENT FILES  
OFFICE

RECEIVED  
APR 10 1989

MAY 10 1989

Calculation of Expenditure Days Credits

Total Expenditures \$  + 15 =

Instructions  
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **20**

For Office Use Only

Total Days Cr. Recorded **400**

Date Recorded **April 10/89**

Date Approved as Recorded **12 May 89**

Mining Recorder **G. White**

Branch Director **[Signature]**

Date **April 10/89**

Recorded Holder or Agent (Signature) **[Signature]**

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying  
**Mr C F Desson Box 1392 Timmins, Ont P4N 7N2**

Date Certified **April 10/89**

Certified by (Signature) **[Signature]**

KIDD TR		WALKER TR		MURPHY TR		JESSOP TR	
917830	917831	917832	917833	917834	917835	917836	917837
917838	917839	917840	917841	917842	917843	917844	917845
917846	917847	917848	917849	917850	917851	917852	917853
917854	917855	917856	917857	917858	917859	917860	917861
917862	917863	917864	917865	917866	917867	917868	917869
917870	917871	917872	917873	917874	917875	917876	917877
917878	917879	917880	917881	917882	917883	917884	917885
917886	917887	917888	917889	917890	917891	917892	917893
917894	917895	917896	917897	917898	917899	917900	917901

INDEX ASHP  
 11 20 03 31  
 (From 1/10/03 to 1/1/04)  
 6-2384

ELECTROMAGNETIC SURVEY  
 SHERIDAN CLAIMS

APRIL 1991  
 JESSOP TOWNSHIP  
 PARCELS 917830 TO 917901  
 OMPAS

SCALE 1:2000  
 EMPLOYEE SCALE 1:1000  
 METRIC LARGE SCALE 1:1000  
 METRIC SMALL SCALE 1:5000  
 COORDINATE SYSTEM 2000 FT

All Electromagnetic data is a result of the survey performed  
 All data is the property of the OMPAS  
 OMPAS  
 2100 West 10th Street  
 Edmonton, Alberta T6E 6E6

2.12415

