

2A12NE0507 2.11902 MACDIARMID

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GEOPHYSICAL REPORT

ON

MACDIARMID TOWNSHIP PROPERTY

FOR

FALCONBRIDGE LIMITED

RECEIVED DEC 7 1988 MINING LANDS SECTION





42A12NE0507 2.11902 MACDIARMID

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Introduction

Exsics Exploration Limited was contracted by Falconbridge Limited to perform a geophysical program on a block of 16 contiguous unpatented mining claims, located in MacDiarmid Township, Porcupine Mining Division, Timmins, Ontario.

The purpose of this program was to outline any responses which may indicate favourable geological conditions for gold and or base metal deposition.

This report will deal with the results of this program which was carried out during the latter part of June, 1988.

<u>Personnel</u>

The people directly involved with the survey were all employed by Exsics Exploration Limited and are as follows:

Wayne Pearson	Timmins, Ontario
Dan Collin	Timmins, Ontario
Ed Brunet	Timmins, Ontario
All work was supervised by J. C	. Grant.

- 1 -

<u>Claims</u>

The claims covered by the survey program which make up the MacDiarmid Township Property are as follows:

N. 4

Township	Number
MacDiarmid	995479
11	995480
"	995481
"	995482
n	996066
11	996067
"	996068
"	996069
"	996070
	996071
n	996072
"	996073
"	996074
	99607 <i>5</i>
"	996076
	996077



Location and Access

The MacDiarmid Township property is located approximately 30 km (18.6 miles) north, northwest of Timmins, in the northern section of MacDiarmid Township, Porcupine Mining Division, Timmins, Ontario (figure 2). The northern boundary of the property is determined by the MacDiarmid Township, Reid Township boundary, which is a cut line (figure 3).

Access to the property during the survey period was by helicopter, supplied by Huisson Aviation of Timmins. Flight time from the Huisson base to the property is approximately 15 minutes. A camp was established on a small lake to the east of the grid and the surveys were completed from the camp.

Geophysical Program

This program consisted to a total field magnetic survey, and Max Min II, Horizontal Loop, Electromagnetic Survey. Both of these surveys were handled by Exsics staff and completed over the entire property.

Magnetic Survey:

This survey was completed using the EDA Omni IV System and specifications for this unit can be found under Appendix A of this report.

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The unit is capable of recording and storing magnetic values accurate to the decimal point, thus greatly improving the accuracy as well as the quality of the collected data.

A base station was established on the survey grid at a fixed point and this unit was tuned to a reference field of 58951 gammas. The field unit was also tuned at the same fixed point and set to the same reference field.

The base station unit was set to record and store readings at 30 second intervals so as to monitor any spiking or change in the earth's diurnal throughout the day.

At the end of each survey day, the field unit and base station unit are coupled together and the raw field data is dumped to the bas station mag where it is merged. The internal microprocessor then computes the diurnal variation in the earth's magnetic field for each survey grid coordinate by comparing the times at which readings were taken and computing any mid-interval values.

This is most useful in these northern latitudes where more detailed monitoring of the diurnal variations is required.

This correction is done during the data dump of the unit. The retreived data is the correct data ready for plotting. This plotted data has had a background of 58000 gammas removed for ease in plotting.

- 4 -

Horizontal Loop Survey:

This survey was completed using the Max Min II System manufactured by Apex Parametrics of Toronto.

Specifications for this system can be found as Appendix C of this report.

This survey is a two-man continuously portable EM System which is designed to measure both the vertical and horizontal in-phase (1P) and quadrature phase (QP) components of the anomalous field from electrically conductuve zones.

For this survey, a coil separation between the receiver and transmitter operator was set at 150 meters, which would give a theoretical search depth range of 70-80 meters.

The two frequencies chosen were the 1777 and 444 Hz channels which, in the past, have proven to be quite sufficient in this area.

The data was collected at the mid-point of the operators over the entire grid. One in-phase and quadrature value was recorded at each station.

This data was then directly plotted onto the base maps.

Base Maps

The base maps were set up at a scale of 1:5000 and all of the collected data was put on. For the magnetic data, 58000 gammas has been subtracted from each reading for ease in plotting. The data was then contoured at 50 gamma intervals wherever possible.

The Max Min maps were profiled at 1 cm to 20% and one map was used for each frequency. The plot point is the mid-point between the operators which accounts for the 75 meter blanks at the north and south end of each line.

The approximate position of the government, airborne targets have been place on each map.

Survey Results

The geophysical program conducted on the property was successful in outlining a number of areas of interest. These areas will be discussed in detail below.

The most predominant feature on the property is a HEM conductor which appears to run onto the property at LOE/950S and extend across the property at approximately 70 degrees Az to L15E/425S. This zone has an approximate conductivity of 2.5-10 mhos with a depth to source of 23-50 meters. It is coincidental with airborne electromagnetic conductors 1140J and 1120 1.

- 6 -

To the east the structure appears to be cut off at L15E by a cross-structure appearing as a magnetic low, with is most likely a fault zone as indicated by Map 2205, Timmins-Kirkland Lake Geological compilation series (figure 4). From L3E, going west, the strike of the zone shifts slightly northward and is offset to the south between LOE and L1E. This appears to be the result of a cross-structure indicated by a magnetic low, which again is most likely a fault zone, as shown by map 2205 (figure 4),

Just east of this the conductor appears to branch off from the main feature, from L5E/900S to L6E/875S. This may be the result of the zone thickening at this point or possibly stringer-type material, contained within or extending from the main zone.

Although there are no apparent magnetics on strike with this zone, the HLEM response may be a result of the contact between the felsics and mafics as indicated by Map 2205 (figure 4).

The second area of interest is a HLEM conductor which extends from L8E/1125/S to L13E/1250S. It has a conductivity of 5-7.5 mhos, and a depth to source of 10-45 meters. It is coincidental with airborne electromagnetic conductors 1120H. This structure is flanked on both sides by magnetic highs on L9E, while it is flanked by lows to the These magnetic highs closely flanked by lows may be an indication of some sort of alteration. This zone may be a result of the contact between the mafic and felsic units shown by Map 2205 (figure 4).

Spotty magnetic highs and lows are also encountered where this zone appears to come in contact with the fault zone to the west, and there is no HLEM response over this area, the magnetics may be an indication of some sort of alteration in these areas.

Magnetic highs along the western boundary may be the result of a diabase dyke shown to run north south through this area by Map 2205 (figure 4).

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Conclusions and Recommendations

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The HLEM survey conducted was successful in outlining a number of areas of interest. These areas would appear to be legitimate bedrock responses, well defined within the search depth capabilites of the instrument.

The zones discussed are definitely worthy of further follow-up work.

The main zone striking across the property at 70 degrees has a considerable strike length and may be contact related, despite the absence of magnetics.

The second zone may also be contact related but is also associated with magnetic highs and lows which may be an indication of alteration.

This magnetic signature is also apparent along the southern half of the western fault, suggesting possible alteration along the fault zone. As well test lines of induced polarization over some of these areas may help better define the source of responses outlined in this report.

Respectfully submitted,



J.C. Grant

CERTIFICATE OF QUALIFICATIONS

- I, John Charles Grant do hereby certify:
 - 1. that I am a geophysicist and reside at Lot 2 Martineau Avenue, Kamiskotia Lake, Timmins, Ontario.
 - 2. that I am a Fellow of the Geological Association of Canada.
 - 3. that I am a member of the Certified Engineering Technologist Association.
 - 4. that I graduated from Cambrian College of Applied Arts and Technology, Sudbury Campus in 1975 with an Honour's diploma in Geology Technology.
 - 5. that I have practised my profession continuously for 13 years.
 - 6. that my report on MacDiarmid Township property, for FALCONBRIDGE LIMITED is based on work carried out under my supervision.
 - 4. I hold no specific or special interest in the described property. I have been retained as a Consulting Geophysicist for "the property".

Dated this 25th day of Nov.1988 at Timmins, Ontario



John C. Grant, C.E.T., F.G.A.C.

APPENDICES

omain Tie-Line' Magnetometer



OMNI IV's Major Benefits

- Four Magnetometers in One
- Self Correcting for Diurnal Variations
- Reduced Instrumentation Requirements
- 25% Weight Reduction
- User Friendly Keypad Operation
- Universal Computer Interface
- Comprehensive Software Packages

	· · · · · ·	1
Chamic Range	18,000 to 110,000 gammas. Roll-over display feature suppresses first significant digit upon exceeding 100,000 gammas.	
Timing Method	. Tuning value is calculated accurately utilizing a specially developed tuning algorithm	
Automatic Fine Tuning	\pm 15% relative to ambient field strength of last stored value	
Deplay Resolution	.0.1 gamma	
Statistical Error Resolution	0.01 gamma	
Absolute Accuracy	. ± 1 gamma at 50,000 gammas at 23°C	i
Studard Memory Capacity	± 2 gamma over total temperature range	
Total Field or Gradient	1,200 data blocks or sets of readings	
Tie-Line Points	. 100 data blocks or sets of readings 5 000 data blocks or sets of readings	
Dialay .	Custom-designed, ruggedized liquid crystal display with an operating temperature range from -40°C to + 55°C. The display contains six numeric digits, decimal point, battery status monitor, signal decay rate and signal amplitude monitor and function descriptors.	
RS 232 Serial I/O Interface	2400 baud, 8 data bits, 2 stop bits, no parity	}
Gradient Tolerance	6,000 gammas per meter (field proven)	
	. A. Diagnostic testing (data and programmable memory) B. Self Test (hardware)	
Sensor	Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy.	
Gratient Sensors	0.5 meter sensor separation (standard), normalized to gammas/meter. Optional 1.0 meter sensor separation available. Horizontal sensors optional.	
Sensor Cable	Remains flexible in temperature range specified, includes strain-relief connector	
Cycing Time (Base Station Mode)	. Programmable from 5 seconds up to 60 minutes in 1 second increments	(
Operating Environmental Range	40°C to +55°C; 0-100% relative humidity; weatherproof Non-magnetic rechargeable sealed lead-acid battery cartridge or belt: rechargeable NiCad or Disposable battery	
	cartridge or belt; or 12V DC power source option for base station operation.	
	depending upon ambient temperature and rate of readings	
Weights and Dimensions		1
In Tument Console Only	. 2.8 Kg, 238 X 150 X 250mm 1 2 kg, 235 X 105 X 90mm	ł
NiCad or Alkaline Battery Belt	.1.2 kg, 540 x 100 x 40mm	
Lead-Acid Battery Cartridge	. 1.8 kg, 235 x 105 x 90mm	
Let -Acid Battery Belt	. 1.8 kg, 540 x 100 x 40mm 1.2 kg, 56mm diameter x 200mm	
Gradient Sensor	. ו.ב הש, סטווווו עומוויכנטו א בעטווווו	E D
(O m separation-standard)	. 2.1 kg, 56mm dlameter x 790mm	Tor Car Tel
creard system Complement	. 2.2 kg, somm diameter X 1300mm Instrument console: sensor: 3-meter cable, aluminum	(41) (41
	sectional sensor staff, power supply, harness assembly, operations manual.	in 1 E D 519
Gradiometer Option	. Standard system plus 30 meter cable . Standard system plus 0,5 meter sensor	WI U.S (30

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E D A Instruments Inc. 4 Thornchife Park Drive Toronto, Ontario Canada M4H 1H1 Telex: 06 23222 EDA TOR Cable: Instruments Toronto (416) 425 7800

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In U.S.A. E D A Instruments Inc. 5151 Ward Road Wheat Ridge, Colorado U.S.A. 80033 (303) 422 9112

Printed in Canada

APPENIX B

APEX MAXMIN II

- Five frequencies: 222, 444, 888, 1777 and 3555 Hz.
- Maximum coupled (horizontal-loop) operation with reference cable.
- Minimum coupled operation with reference cable.
- Vertical-loop operation without reference cable.
- Coll separations: 25, 50, 100, 150, 200 and 250 m (with cable) or 100, 200, 300, 400, 600 and 800 ft.
- Reliable data from depths of up to 180m (600 ft).
- Built-in voice communication circuitry with cable.
- Tilt meters to control coll orientation.





Phone: (416) 495-1612

Cables: APEXPARA TORONTO

Telex: 08-966773 NORDVIK TOR

APPENDIX C

1100. Ministry of **Report of Work** Northern Allairs Pd (Geophysical, Geological, and Mines Geochemical and Expenditures) ontario ed .50092.11900 W88 900 MACMin) Claim Holder(s) 5 MAGNETIC SURVEYS MACDIARMIN TWP. -01647 FALCONBRIDGE LIMITED MONETA. AVE, TIMMINS Total Miles of line Cut 2 No. 1 SICS Name and Add GRANI Зох *C*. 1880 Vimmids Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numerical sequence) Special Provisions Mining Claim Expend. Days Cr. Mining Claim Days per Claim Expend. Days Cr. Geophysical Prefix Prefix Number Number For first survey: - Electromagnetic 995482 20 Enter 40 days. (This includes line cutting) Magnetometer 995481 40 ۲. - Radiometric 995 480 For each additional survey: using the same grid: - Other 995474 Enter 20 days (for each) Geological 996066 Geochemical 996 061 Man Davs Days per Claim Geophysical 996068 ł Complete reverse side - Electromagnetic 996069 and enter total(s) here UPINE MINING DIVISION Magnetometer 996070 RECEIVED Radiometric 996071 OCT 24 1988 Other 996072 79 26 Igr Geological 996013 SECT!DN MINING LANDS Ge chemical 996074 Airborne Credits Days per Claim 996075 1.5 Note: Special provisions Electromagnetic 996076 credits do not apply Magnetometer 996077 to Airborne Surveys. ONTARIC CEOLOGICAL SURVEY CORDE Expenditures (exclu Type of Work Perform ed OFFICE. Performed on Claim(s DEC 20 1988 26 25.198 RECEIVED Calculation of Expend Total Days Credits **Total Expenditures** \$ 15 Total number of mining claims covered by this (_ report of work. Instructions Total Days Credits may be apportione N Syabledya For Office Use Only choice. Enter number of days credu in columns at right. Total Days Cr. Date Recorded Mining Recorded Date 60 OHN, BRANT Certification Verifying Repor @.Work I hereby certify that I have a po Dai 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 atter its completion and the annexed report is true. Name and Postal Address of Person Ce WOJJehiv FARD 1300 VIMMINS. Date Ce Certified by)(Signature tified 4N- 7XI 1362 (85/9)



OFFICE USE ONLY

Ministry of Northern Development and Mines Geophysical-Geological-Geochemical Technical Data Statement

File_

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 <u>MacDia</u> :	rmid Township	MINING CLAIMS TRAVERSED
Claim Holder(s)Falcon	bridge Limited	List numerically
Survey Company Exsics Author of Report J.C.Gr Address of Author Box 18 Covering Dates of Survey June	Exploration Ltd. ant 80, Timmins, Ontario 1/88-Nov 14/88	(prefix) (number)
Total Miles of Line Cut 30.5	km (18.95) miles	P 995481
SPECIAL PROVISIONS CREDITS REQUESTED	DAYS Geophysical 20	Р 996066 Р 996067
ENTER 40 days (includes line cutting) for first survey.	–Electromagnetic <u>20</u> –Magnetometer <u>40</u> –Radiometric	Р 996068 Р 996069
ENTER 20 days for each additional survey using same grid.	–Other Geological Geochemical	Р 996070 Р 996071
AIRBORNE CREDITS (Special prov MagnetometerElectromag (enter	vision credits do not apply to antiorne surveys gnetic Radiometric days per claim &	P 996072 P 996072
DATE: <u>9 /1⁰⁹ /8/88</u> SIGN	ATURE: JOHN GRANT	P. 996073 P. 996074 P. 996075
Res. GeolQual Previous Surveys	ifications 2.527/	
rue No. Type Date	Claim Holder	P. 9.9.6.0.7.7.
		16

GEOPHYSICAL TECHNICAL DATA

N	Number of Stations	Mag and M	Max Min 11	70	Number	of Reading	gs <u>Mag</u> a	and Max	Min 11
S	station interval	25 meters	5		Line spa	icing	100 me	ters	
P	rofile scale	1" - 10%							
C	Contour interval	50 gammas	5						
								: · ·	
	Instrument	EDA Omni	L IV				w		
H	Accuracy - Scale	constant	<u>t1 gamma</u>					······································	
Z	Diurnal correction	n method <u>Ba</u>	<u>ase static</u>	n corre	ction				<u> </u>
MA	Base Station chec	:k-in interval (h	nours <u>) Read</u>	ling tak	en every	<u>30 sec</u>	onds		
	Base Station loca	tion and value	5895	1					
	<u></u>								
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입	Instrument	Apex Max-	-Min II		·		·	: 	
ET	Coil configuration	n <u>Co-plane</u>	er		· · · · · · · · · · · · · · · · · · ·			<u></u>	
S	Coil separation _	150_mete	ers						
MO	Accuracy	± 0.5%	······	.		· · · · · · · · · · · · · · · · · · ·			
TR	Method:	🗆 🗆 Fix	ed transmitter		Shoot back	k Ir	n line	🗖 Para	llel line
S	Frequency	444 H7	177711-						
. 11				lanarit	VIE station				
믭	Parameters measu	ured In-r	base and	(specify	V.L.F. station)	of pha	se)		<u> </u>
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REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. - MINING RIGHTS ONLY

S.R.O. - SURFACE RIGHTS ONLY

M.+ S. - MINING AND SURFACE RIGHTS





NOTES

THIS TOWNSHIP LIES WITHIN THE MUNICIPALITY OF THE CITY OF

FLOODING RIGHTS ALONG MATTAGAMI RIVER RESERVED TO ONT.

TIMMINS.

HYDRO, L.O. 7085

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LEGEND HIGHWAY AND ROUTE No. OTHER ROADS TRAILS SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC. LOTS, MINING CLAIMS, PARCELS, ETC. 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 RESERVATIONS ORIGINAL SHORELINE MARSH OR MUSKEG MINES TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

SYMBOL

TYPE OF DOCUMENT

TWP.

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NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6. 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 360, SEC. 63, SUBSEC 1.



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TL 16+00S	 						-		<u> </u>	-				-	-		TL 16+00S
		L 1+00E	L 2+00E	L 3+00F	L 4+00E	L 5+00E	L 6+00E	L 7+00E	L 9+00E	L 10+00E	L 11+00E	L 12+00E	L 13+00E	4+00E	, 16+00F		2.11902
ÁIRBORNE DECAY INTERVA ANOMALY	AL CLASSI	IFICATION			<i>.</i>			+	MAX-MIN II -			.e				EXS PO B Suite	ILS EXPLORATION LTD Iox 1880, P4N-7X1 13, Hollinger Bldg, Timmins Unt
$-\frac{1}{1}$ I-2 Channel (350, 4) $-\frac{1}{1}$ 3-4 Channel (550)																	
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	, .	L 0+00	L 1+00E	LZTOOE	L 3+00E	L 4+00E	L 5+00E	L 6+00E	L 7+00E	L 8+00E	L 9+00E	L 10+00E	L 11+00E	L 12+00E	, L 13+00E	L 14+00E	L 15+00E	L 16+00E	L 17+00E			N
ID TOWNSHIP)+00												<u>-</u>					·····			BL 0+00	
CDIARMID TO	WNSHIP	+2; -2	+3, 1-2	+2++1	-2++	-2 -1	+2;	+5++	+3;++	+2-+1	+3 +2	2 +3	+2; () - x +	+2	+4 - +3	+4	+ + ++				
2	+00S	+2 $-1+2 -3+3 -2+3 -2+3 -2+3 -2+2 -2+2 -2+2 -2+2 -2+2 -2+2 -2+2 -2+2 -2$	+3-1-2 +2-3 +32 +31 +31 +1 +-2 +1 +1 +-1 +2 +2 +2 +2 +2 +2 +2 +2 +2 +3 +2 +2 +2 +2 +2 +2 +2 +2 +2 +2 +2 +2 +2	+2++ +2++ +2++2 +2++2 +2++2 +2++2 +2++2 +2+- +2+- +2+ +1+1	+1 + +2 +3 + +2 +2 +2 +1 + +2 +1 + +2 +1 + +2 +2 +0 +1 +0 -1 -1 +1 -1		+2	+3 0 0 +3 0 0 +3 +3 0 0 +3 +2 0 +3 +2 +0 +2 +2 +1 +4 +2 +4 +2 +4 +2	+2,-+ +3,-+ +3,-+ +3,-+ +4,-+2 +4,-+2 +3,-+2 +3,-+2 +3,-+2	+ + + 2 + + + 2 + + + 2 + - + 2 + 2 + 2 + 2 + 2 + 3 3 3 3 3 3 3	$\begin{array}{c} +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + + \\ +2 + $	+3 +3 +3 +3 +3 +3 +3 +4 +4 +4 +4 +4 +4 +3 +4 +4 +4 +3 +4 +4 +4 +3 +4 +4 +4 +4 +4 +4 +4 +4 +4 +4 +4 +4 +4	2 +3 + + + + = + + + + + + + + + + + + +	+ + + + + + + + + + + + + + + + + + +	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	+3+++++++++++++++++++++++++++++++++++++		+2 +0 ++2 +0 ++1 +++ +1 -1 +++ +2 - -1 +2 - -1 +2 - -1 +2 +1 +-1 +2 +1 +-1	+2 +1 +2 -1 +2 -1 +1 -1 +1 -1 +1 -1 +1 +1 -1 +1 +1 +2 - 0		2+00S	
TL 4	+00S	+2 $+3$ $+-1++3 +-1++5 +-1++5 ++1+5 ++1+5 ++1+5 +1$	+2; +2; +5; +7;-00 +7;-00 +5;+ +5;+	+2 + + +3 + +2 +3 - +4 +2 + +3 +2 + +3 +2 + +3 +2 + +1 +2 - 0 +4 - 0	+2	+4 +2 +3 -1 +1 -1 +2 -2 +2 -2 +1 -2 +1 -2 +1 -2	+3++3 +3++3 +4++2 +4++2 +3++2 +3++2 +3++2 +3++2 +3++1 +2+ +2++1	+3++2 +2++2 +3++1 +3++1 +2++1 +2++1 +2++2 +3++1 +2++1 +2++1 +4++1	+3 +2 +3 +2 +3 +2 +2 +2 +2 +2 +1 +2 +1 +2 +1 +3 +2 +3 +2 +3 +2 +4 +2	+ 4 + 3 + 3 + 3 + 4 + 3 + 4 + 3 + 4 + 3 + 4 + 3 + 4 + 3 + 4 + 3 + 4 + 3 + 4 + 3 + 4 + 3 + 3	$\begin{array}{c} -2 \\ +2 \\ +1 \\ +2 \\ +1 \\ +2 \\ +2 \\ +2 \\ +$	2 +2;-+ 2 +2;-+ +2 +2;-+ +3;++ +3;++ +3;++ +3;++ +3;++ +3;++	3 + 3 + 2 + + 3 + 2 + 2 + 2 + 3 + 4 + + 4 + + 2 + 2 + - 2 + - 4 = -2 +	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} +4 \\ +4 \\ +3 \\ +4 \\ +4 \\ +2 \\ +2 \\ +2 \\ +2 \\ +2 \\ +2$	+ + + + + + + + + + + + + + + + + + +	3 +24 2 -2 -3 -5 -5 -3 -1 -5 -3 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	+2 $+2$ $+2$ $+2$ $+2$ $+2$ $+2$ $+2$		TL 4+00S	
8	+005	+++++++++++++++++++++++++++++++++++++++		+4 +5 +5 55 +2 +5 55 +2 +2 +2 +2 +2 +3 +3 +4 +5 +5 55 +2 +2 +4 +5 -1 -2 +2 +2 +5 -1 +2 +2 +5 -1 +5 -1 +5 -1 +5 -1 +5 -1 +5 -1 +5 -1 +5 -1 +5 -1 +5 -1 +5 -1 +5 -1 +5 -1 +5 -1 +5 -1 +5 +5 -1 +5 +5 +5 +5 +5 +5 +5 +5 +5 +5 +5 +5 +5	$\begin{array}{c} + \\ + \\ + \\ + \\ + \\ + \\ + \\ + \\ + \\ + $		+3 ++ +3 ++ +4 ++ +3 ++ +4 ++ +3 ++ +2 ++ ++ +2 ++ +2 ++ ++ ++ ++ ++ ++ ++ ++ ++ ++ ++ ++ ++	+4++1 +4++2 +4++3 +4++4 +4++3 +4++4 +4++3 +4+++3 +4+++2 +2+++3 +2++1 +2+-1 -2+3 +2++1 +2 +2 +4++1 +3 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +4++2 +2 +2 +2 +2 +2 +2 +2 +2 +2 +2 +2 +2	+6 +2 +8 +3 +7 +3 +6 +3 +3 +2 -1 -4 -64 -8 +5 -3	+3++2 +2++1 +2++1 -1 +1 -3 +2 -4 +3 -3 +1	+2 + 0 +1 -1 -1 -2 -3 -1 -2 -5 -1 +2 -1 +2 -1 +1 +1 +3	-6 120 2 -7 -4 +4 +4 +4 +4 +4 +4 +4 +4 +4 +	4 <u>5</u> 4 <u>6</u> 4 <u>0</u> 4 <u>10</u> 4 <u>10</u>	6 6 5 2 - + + + + + + + + + + + + + + + + + +	5 -8 + 4 $3 + 3 + -1$ $+ 3 + -1$ $+ 4 + -1$ $3 + 3 + -1$ $3 + 3 + -1$ $4 + 3 + +1$ $+ 3 + +1$ $+ 3 + +1$	- +2 ++ + + 0 0 + + +2 3 3 3 +2 2 2 4 +3 3 3 2 2 2 4 +2 2 2 4 +2 2 4 +2 4 +2 4 +2 4	220366 24 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	+2 ++ +2 +2 ++ +2 +2 ++ +2 + ++ +1 +2 ++ +2 ++ +1 ++ +2 ++ +2 ++ +1 ++ +2 ++ +1 ++ +2 ++ +1 ++ +2 ++ +1 ++ +2 ++ +1 ++++++++	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		6+00S	
TL 8	3+00S	+p	+9-6++ +0-++ +0-++ +0-++ +0-++ +0-++ +0-++ +0-++ +0-++ +0-++	+4++3 +4+-+3 +4+1 -121 -1212 -1212 -89 +12	+4+++2 -8-7 -16-10 -16-13 -16-13 -17-12 -17-12 -19 -2-5	-2 -3 -2 -5 -5 -6 +1 -3 +2 -3 +2 -3 +2 -3	+3 +-2 +12 +13 +23 +24 +34 +54	-1 -2 -1 -2 +1 -1 -3 +1 +2 -1 +2 -1 +1 -2 +1 -2 +1 -2 +1 -2 +1 -2	+ 3 + + + 1 + + + 1 + + + 1 + - + 1 - +	+1 +2 +3 +4 +4 +4 +4 +4 +4 +1 +3 +1 +1 +1 +1 +2 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1	+3 -1 +3 -2 +3 -2 +3 -2 +2 -1 +4 -1 +5 - +1 +3 +1 +3 +1 +2 +1	+4+++ +4+++ 2+3+++ +2+++ +1+++ +1+++ +1+++	+4+++++++++++++++++++++++++++++++++++	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} +2 \\ 3 \\ +2 \\ +2 \\ +2 \\ +3 \\ +2 \\ +2 \\ $	+ 2 x + + + + + + + + + + + + + + + + +	2 +37+ 2 +27+ 2 +1 +1 +1 +1 +1 +1 +1 +2;-+ +1 +1 +1 +2;-+	-2 +1 +++ +1 -1 +++ +1 +1 ++ +1 +1 ++ +1 +1 ++ +1 +2 ++ +1 +++ +1 ++++ +1 ++++ +1 ++++++++	$\begin{array}{c} +2 \\ 2 \\ +1 \\ 2 \\ +1 \\ 2 \\ -1 \\ 2 \\ -1 \\ -1 \\ +1 \\ +1 \\ +2 \\ +2 \\ +1 \\ +1 \\ +2 \\ +1 \\ +1$		TL 8+00S	
IC	0+00S	+2	+8 + +1 -2 20 +6 + -2 20 +5 + -2 -3 +5 + -2 -3 +24 +24		+ +2 +3++ +4++2 +4++2 +3++2 +3++2 +2+2 +2+2 + +2 +1 +2 +2 +2 +2 +1 +2 +2 +2 +2 +2 +2 +2 +2 +2 +2 +2 +2 +2	+2 -2 +2 -2 +1 -1 +1 +1 +2 +1 +3 +1 +3 +1 +3 +1 +4 +2	+4 +3 +3 +3 +3 +3 +3 +1 0 +3 +1 0 +2 +1 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +2 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1 +1	+ -3 + -2 + -2 +2 +2 +2 +2 +2 +2 +2 +2 +2 +2 +2 +2 +2	+33 +23 +22 +21 +1 -1 +21 +21 +21 +31 +31	55-5-4-4-2-6-6 + + + 2 - 8 8	5mhos HBm + + + + + + + + + + Bm - + + + + + + + + + + + + + + + + + +		-2 + -2 + -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 -2 	$\begin{vmatrix} + \\ + \\ + \\ + \\ + \\ + \\ + \\ + \\ + \\ + $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	+ + + + + + + + + + + + - - + + - + + - +2 + -	920966	+2 + - + + +2 + - + +2 + - + + + + + + + +	+ + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +		IO+00S	
TL 12	2+00S	+3 -4 +4 -3 +4 -3 +2 -3 +2 -3 +2 -3 +2 -3 +2 -3 +5 -4 +5 -4 +6 -4 +6 -4 +7 -5 +7 -5 +7 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5 -5	+3 -5 +4 -5 +5 -4 +5 -2 +4 -2 +4 -2 +3 -1	+2:	+ - + -2 +2 -2 +2 -2 +2 -2 +1 -2 - -3	+3 + + +3 + + +2 + + +2 + - + - + -2 + -2 + -3	+4 +5 +1 +6 +1 +4 -1 ++3 -1 ++3 -1 ++1 +1 +-2 -1 -7-3	+2 - 0 +3 - 0 +2 - + +2 - + +2 - + +2 - +2 +3 - +	+3-+! +3-+! +3-+! +4-+! +4-0 +21 + 2	-9 -7 +9 +9 -7 +9 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7 -7	- 2 - 3 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	-4 -4 -20- -17 -15 -15 -7	2 + 120H 7; -1 ++ 7; +2 ++ 4 +2 ++	+2 -0 2 +2 -0 2 +2 -0 3 -1 -1 2 -1 -2 +1 -3 +2 -0 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1	+2 + + + + -1 2 +2 -0 +2 ++ +2 ++	- - - + + + + + + + + + + + + +	+2;++ +3;++ +3;-(+2;-(+1;-+ +1;++ +2;++	+2 + + + +2 + + - + + + + - + + + + + + + + + +	- +2 + - +1 0 + +2 + +2 + +2 +	-	TL 12+00S	
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TL K	6+00S				-				- 			-									TL 16+00S	
		L 0+00	L 1+00E	L 2+00E	L 3+00E	L 4+00E	L 5+00E	L 6+00E	L 7+00E	L 8+00E	L 9+00E	L 10+00E	L 11+00E	L 12+00E	L 13+00E	L 14+00E	L 15+00E	L 16+00E	L 17+00E	2.	11902	
BORNE DECA	Y INTERVAL CLA	ASSIFICA	TION						-	MAX- +	-MIN II _	 .					₹ 1		EXSI P.O. Box Suite 13	CS EXPLO x 1860, P4N-7X1 3. Hollinger Bldg	RATION LTD.	\$
-> <u>∕</u> I-2 Cha	nnel (350, 450 mic	roseconds	;)						X. Y.	+20 +15	+25 +20 Q										1 SSOCIAT	6. X 0
-(-)- 3-4 Ch -(-)- 5-6 Ch -(-)- 7-8 Ch	annel (550, 670 mi annel (790, 910 mia annel (1050, 1190 mi	icrosecond croseconds Icrosecond	is) ;) is)						CONDUCT AXIS -	-15 -30 -30 -15 -15 -15 -15 -15	-10 -15 -15 -10 -20 +25		INSTRUMEN MODE: Max PARAMETR	LEGEND <u>T</u> : Apex Para imum Coupled, ES MEASURED	metrics Max-Mu Horizontal Loo : Inphase (%) Out of phase	n 11 19 Survey (*/1	PROPI	ERTY: M/		D TOWNSH	HP	
9-10 Cł	hannel (1350, 1510 m	nicrosecon	ds)						OF-PHASE MASE			:	FREQUENCY COIL SEPAI OPERATOR	(:444 Hz RATION: 150m D. Collin, V	Na Pearson	*	Date:	JULY 198	8 Si	cale: 1:5000	NTS:	