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CUCKOO LAKE PROPERTY SWAYZE TOWNSHIP

2.15105

FINAL SUBMISSION

OPAP 92-814

RON CRICHTON JANUARY 1993 0.2.78/9 010

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INTRODUCTION:

THIS FIVE CLAIM PROPERTY CONSISTS OF FIVE CONTIGUOUS CLAIMS IN SWEYZE TOWNSHIP, PORCUPINE MINING DIVISION. THEY ARENUMBERED P. 1182447, P. 1182448, P. 1112774, P. 1182170 and P. 1182172. THE PROGRAM INVOLVES STRIPPING, LINECUTTING, TOTAL FIELD MAGNETOMETER, V.L.F. E.M.16, DIAMOND DRILLING AND ASSAYS.

PURPOSE:

THE FIVE CLAIM PROJECT IN SWAYZE TOWNSHIP IS BEING WORKED ON WITH THE ASSISTANCE OF AN O.P.A.P. GRANT. THE TWO GEOPHYSICAL SURVEYS AND DRILLING ARE TO FIND AN EXISTING EXTENSION OF THE CREE LAKE VEIN. UPON ENTERING THE PROJECT, IT IS HOPE THAT THE EXTENSION CAN BE FOUND. THE MAIN OBJECTABLE MINERAL IS GOLD AND HOPEFULLY AND SECONDARY MINERAL WILL ALSO BE FOUND. LOCATION AND ACCESS:

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THE CUCKOO LAKE PROPERTY IS LOCATED IN THE SOUTH WEST SECTION OF SWAYZE TOWNSHIP, PORCUPINE MINING DIVISION, DISTRICT OF COCHRANE. THEY COVER THE MOST PART OF CUCKOO LAKE AND THE MAINLAND TO THE NORTH OF THE LAKE.

THE GROUP IS ACCESSES BY THE FOLEYET TIMBER ROAD, ONE MILE EAST OF THE TOWN OF FOLEYET ON HIGHWAY 101. THE TIMBER ROAD GOES FOR ABOUT AN HOURS DRIVE TO AN ACCESS ROAD THAT LEADS TO FREYMOND AND BRETT LAKES. AN A.T.V. ROAD TRAVELS AROUND FREYMOND LAKE TO THE MAINLAND BETWEEN CREE LAKE AND CUCKOO LAKE.

see claim map section

PROPERTY DESCRIPTION:

APPROXIMATELY HALF OF THE PROPERTY IS COVERED BY CUCKOO LAKE. THE NORTH AND NORTHEST PORTION OF THE PROPERTY HAS VERY HIGH ROLLING HILLS, WITH OUTCROP DROPPING DOWN STEEPLY INTO THE LAKE. THESE HILLS ARE VERY STEEP CLIFFS IN THE VERY NORTHEAST CORNER OF THE CLAIMS.

THE LAND MASS NORTH OF THE LAKE IS COVERED WITH JACK PINE, SPRUCE BALSAM AND SOME BIRCH. THERE ARE A FEW AREAS OF HIGHLAND TRAPPED CEDARS WITH MEDIUM MOOSE MAPLE AND SOFT ALDERS.

THE AREAS WEST AND SOUTHOF THE LAKE ARE LOW LYING WET MUSKEG. THE SOUTH WEST CORNER OF THE PROPERTY IS A LARGE OUTCROP SURROUNDED BY TAG ALDERS AND MUSKEG SWAMP. THE OUTCROP ITSELF IS COVERED. WITH SPRUCE BALSAM AND CEDAR.

THE LARGE ISLAND IN THE CENTER OF CUCKOO LAKE IS VERY LOW LYING WITH SPRUCE CEDAR AND BALSAM. THE LAKE ITSELF IS VERY SHALLOW MUSKEG AND FILLED WITH BOULDERS. METHOD

A NORTH SOUTH LINE GRID WAS ESTABLISHED ON THE MAINLAND IN SEPTEMBER OF 1992, WITH THE LAKE AND ISLAND BEING DONE IN JANUARY 1993. A TOTAL OF 4.38 MILES WERE CUT. AN EAST WEST BASELINE WAS CUT AND CHAINED FROM 0+25W to 30+25E.

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LINES WERE TURNED OFF OF THE BASELINE WITH AN ANGLE BOARD AT 0+00, 2+25E, 6+25E, 10+25E, 14+25E, 18+25E, 22+25E, 26+25B and 30+25E. PICKET STATIONS WERE SET UP EVERY 100 FEET ALONG THE GRID LINES. IN JANUARY OF 1993 PICKETS WERE PLACED ON THE LAKE AND THE LINE WAS CUT AND PICKETED ACROSS THE ISLAND. THE GRIDS WERE CUT AND CHAINED BY RON CRICHTON WITH THE HELP OF JACOB CRICHTON.

THIS GRID WAS USED FOR ALL SURVEYS AND ALL REFERENCE POINTS FOR THE WORK PROJECT.

TOTAL FIELD MAGNETOMETER:

READINGS WERE TAKEN ALONG ALL GRID LINES AT THE PICKET STATIONS. A BASE STATION WAS ESTABLISHED AT BLO 0+00. DIURINAL DRIFT WAS CORRECTED AND CONTROLLED BY NOTING THETIME AND LOOPING THE GRID LINES WITH EACH OTHER AND THE CONTROLL BASE STATION. A TOTAL OF 227 READINGS WERE TAKEN. THE HIGHEST READING WAS 59691 AND THE LOWEST READING WAS 58237 gammas. DRAFTING WAS DONE AT A SCALE OF 1cm=100feet. THE CONTOURS WERE DONE IN INCREMENTS OF 100 GAMMAS USING 58500 AS THE BASE VALUE. THE UNIT FOR THE SURVEY WAS A MC PHAR. V.L.F. E.M. 16

THE GRID LINES WERE USED TO TAKE READINGS AT EACH PICKET STATION FOR A TOTAL OF 410 READINGS BETWEEN TWO SURVEYS. TWO SURVEYS WERE DONE USING CUTLER MAINE AND ANNAPOLIS MARYLAND. THESE TWO STATIONS WERE USED AS THE DIP OF THE SHEAR ZONE WAAS NOT KNOWN, AND BY USING TWO STATIONS THE ANOMILIES WOULD BE BETTER DEFINED. ALL READINGS WERE TAKEN WHILE FACING NORTH EAST. THE INPHASE AND QUADRATURE VALUES WERE NOTED. A TOTAL OF 197 READINGS WERE TAKEN ON THE ANNAPOLIS, MARYLAND STATION AND 213 READINGS WERE TAKEN ON THE CUTLER MAINE STATION. THE MAPPING WAS DONE ON A SCALE OF 1"=200 feet AND THE PROFILE WAS DRAFTED AT 1'=40%. A GEONICS E.M. 16 UNIT WAS USED FOR BOTH SURVEYS.

DIAMOND DRILLING

TWO DRILL HOLES WERE PUT IN PLACE. DRILL HOLE M-3 WAS EXTENDED FROM 540 feet to 692 feet. IT IS LOCATED AT6=10'W 1+00'N of#2 POST 1112774. THE AZIMUTH WAS 167 WITH THE DIP ANGLE BEING 40. THE ORIGINAL PART OF THIS HOLE WAS PUT DOWNBY SOMEONE ELSE WHO RAN OUT OF FUNDS. IT WAS CONTINUED TO TEST THE SHEAR ZONE FOUND WHILE PROSPECTING. THIS SHEAR ZONE WAS FOUND IN THE HOLE AT 665 FEET. • DRILL HOLE C93-1 WAS LOCATED AT L14+25E at: 24+40S and 20E Az 70 DIP of 45 ON CLAIM 1182448. THE HOLE WAS DRILLED TO A DEPTH OF 402'. THIS LOCATION WAS CHOSEN TO INTERSECT THE SHEAR ZONE FOUND IN HOLE M3 THE DRILLER WAS LARRY SALO WITH RON CRICHTON AS THE HELPER. USING A BES 2 DRILL WITH ADBGM ROD (1.2" core). ALL CORE WAS TAKEN TO KIRKLAND LAKE FOR LOGGING BY MARK MASSON. SAMPLES WERE TAKEN TO SWASTIKA LABORATORIES FOR ASSAYS AFTER BEING SPLIT BY RON CRICHTON. STRIPPING:

AFTER CUTTING THE GRID LINES ON THE PROPERTY THE LOCATION OF THE OLD EXISTING TRENCHES AND PITS WAS CONFIRMED. SOME OVERBURDEN AND GROWTH WAS HAND STRIPPED FROM AROUND THE EDGES AND THE CENTERS WERE SHOVELLED OUT. THIS ENABLED A BETTER LOOK AT THE ROCKS AND THE ACCESSIBILITY TO OBTAIN FRESH BREAK SAMPLES AS APPOSSED TO WEATHERED SAMPLES AND MUCK PILE SAMPLES: DISCUSSIONS:



THE ROCKS OF THE SWAYZE AREA ARE A PRECAMBRIAN SEDIMENTARY-VOLCANIC COMPLEX, INTRUDED BY DYKES AND STOCK WORK BODIES OF GRANITE AND PORPHYRY. KEEWATIN GREENSTONES, CONSISTING OF BASIC FLOWS AND TUFFS ARE ENFOLDED WITH BANDS OF SEDIMENTS, INTERLACED WITH ACID FLOWS AND TUFFS. Ğ

GOLD BEARING QUARTZ STRINGERS WERE FOUND NEAR THE TRENCHES MADE BY BUFFALO CANADIAN MINES.

A QUARTZ VEIN OR STRINGERS ON THE ADJOINING IMMEDIATE WEST PROPERTY IS ABOUT TWO FEET WIDE WITH INCLUSIONS OF WASTE. THE VEIN RUNS EAST WEST ONTO THE PROPERTY AND DIPS TO THE SOUTH. THE ENTIRRE LENGTH OF THE QUARTZ IS WELL MINERALIZED. OZIDIZATION ON THE SURFACE HAS OCCURED BUT FRESH BREAKS SHOWED PYRITE AND CHALCOPYRITE. SOME PLATINUM VALUES WERE OBTAINED BY VANNIN MINING HOWEVER THE EXACT VALUES ARE HERESAY AS IT WASNEVER MADE PUBLIC.

THE PROPERTY HAS THREE MAIN AREAS OF OUTCROP. THESE ARE ALL PORPHYRY WITH FINELY DISSEMINATED SULPHIDES.

STRIPPING

THE IMMEDIATE PROPERTY HAS THREE AREAS OF OUTCROP. THE FIRST BEING IN THE NORTH EAST SECTION. THE ROCK APPEARS TO BE A PORPHRY WITH FINE GRAINED BISSEMINATED BROWNISH PYRITES. SEVERAL OLD PITS AND TRENCH OF APPROXIMATELY TWENTY FIVE YEARS WERE FOUND WHILE DOING THE LINE GRIDS. THESE ARE NEAR LINE 22+25E 2+00S. THEY WERE HAND STRIPPED AROUND THE SURFACE AND OUTER EDGES AND THEN SHOVELLED OUT. SAMPLES WERE TAKEN AND SENT FOR ASSAY. THE SECOND AREA IS NEAR THE WEST BOUNDARY AND TRENDS EASTERLY. ACROSS THE NORTH END OF CUCKOO LAKE. A PIT WAS LOCATED OF LINE 6+25E 9+15S. THIS WAS ALSO HAND STRIPPED AND SAMPLED. THE PORPHRY IS OF THE SAME TYPE THAT WAS FOUND NEAR THE SHOWINGS OF CREE LAKE. THE THIRD IS A LARGE PORHRY OUTCROP ON THE SOUTHWEST CORNEROF CUCKOO LAKE. IT APPEARS TO ABUT THE SHEAR ZONE EVIDENCE IN THE GULCH.. DRILL HOLE C93-1 IS ON THIS OUTCROP. THE HAND STRIPPING AND SHOVELLING OF PITS AND TRENCHES WAS DONE IN OCTOB. ER 1992 BY RON CRICHTON AND STEVE POLSON.

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TOTAL FIELD MAGNETOMETER SURVEY

THE TOTAL FIELD MAGNETOMETER SURVEY DONE ON THIS PROPERTY IN JANUARY 1993 WAS CONDUCTED BY RON CRICHTON ON THE EXISTING GRID LINES. A MCPHAR PROTON MAGNETOMETER WAS USED. THE MAGNETIC READINGS FOR THE MAJORITY OF THE PROPERTY WAS VERY FLAT LYING WITH THE BASE BEING 58300'S. A BAND OF MAGNETIC INCREASE STARTS JUST NORTH OF CUCKOO LAKE. AS THE TOPOGRAPHY RISES SO DOES THE MAGNETIC VALUES. THE HIGHEST AREAS ARE IN AND NEAR THE NORTH EAST CORNER OF THE PROPERTY WERE THE TERRAIN BECOMES THE STEEPEST. THE PITS AND TRENCHES IN THE AREA SHOW THE ROCK TO BE FINE GRAINED DISSEMINATED PYRITE CONTAINED WITHIN THE PORPHRY. IT IS HARD TO JUSTIFY THIS AS THE CAUSE OF THE MAGNETICS AS THEY SEEM TO HAVE A PATTERN THAT DISTINCTLY FOLLOWS THE LAY OF THE LAND AND THE SHAPE OF THE LAKESHORE.

FURTHER WORK OF DETAILED MAPPING AND CONTOURING IS RECCOMMENDED FOR THE FUTURE. THIS AREA SHOULD ALSO SEE SOME ACTIVE BLASTING TO EXPOSE FRESH ROCK. ALL AREAS WITH READINGS OVER 58850 GAMMAS SHOULD BE LOOKED AT. 1<u>c</u>

V.L.F. E.M. 16 SURVEYS

Annapolis, MARYLAND

AN EM. SURVEY WAS CARRIED OUT ON THE EXISTING GRID IN JANUARY OF 1993 BY RON CRICHTON. A GEONICS EM UNIT WAS USED AND ALL READINGS WERE TAKEN WHILE FACING NORTH EAST.

THE PROFILES SEEM TO BE VERY FLAT. THE IN PHASE SHOWS A STRONG DIP COMING FROM THE HIGH ELEVATIONS IN THE NORTH, ACCENTING THE STEEP LAKE SHORE.

CONDUCTOR A IS STRIKING WNW-ESE AND STRIKING FOR APPROXIMATELY SIXX HUNDRED FEET. THE AREA IS COVERED BY SWAMP TO THE WEST AND THE LAKE TO THE EAST. THE ANOMALY DOES HAVE THE TRUE CHARACTERISTICS OF A SULPHIDE CONDUCTOR.

THE CONDUCTOR COULD BE CAUSED BY A CONTACT MIXING OF THE MAFIC VOLCANICS TO THE NORTH AND THE PORPHYRY UNITS TO THE SOUTH.

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THE SURVEY USING CUTLER WAS DONE THE SAME AS THE ONE USING MARYLAND THESE PROFILES ALSO APPEAR VERY FALT LYING, HOWEVER THERE ARE MORE PRONOUNCED AND LINEATED CONDUCTORS.

CONDUCTOR B- THIS IS A WEAK CONDUCTOR POSSIBLY CAUSED BY A CONTACT ZONE BETWEEN THE MAFIC VOLCANICS AND THE FELSIC-INTERMEDIATE VOLCANICS IN THE SOUTH.

CONDUCTOR C- THIS CONDUCTOR IS ALMOST EAST WEST ACROSS THE CENTER OF THE PORPHYRY OUTCROP, AND THE LAKE. IT IS HARD TO SAY IF IT IS CAUSED BY THE OUTCROP OR BY THE WATERS SURROUNDING IT (LAKE TO THE EAST AND SWAMP TO THE NORTH, SOUTH AND WEST).

CONDUCTOR D- IS LOCATED NORTH OF CONDUCTOR C HOWEVER IT IS SMALLER. THIS CONDUCTOR COULD BE CAUSED BY THE EXTENSION OF THE SHEAR SONE



ENCOUNTERED IN DRILL HOLE M3 TO THE WEST. AS THE SHEAR ZONE DEEPENES THE FARTHER EAST YOU GO IT WOULD EXPLAIN THE SHORTENING OF THE CONDUCTOR..

FROM THE TWO VLF SURVEYS IT CAN BE RECCOMMENDED THAT TWO MORE DRILL HOLES BE DONE. SEE RECCOMMENDATIONS FOR POSSIBLE LOCATIONS.

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DIAMOND DRILLING

TWO DRILL HOLES WERE PUT IN PLACE DURING THIS PROGRAM. THE FIRST BEING AN EXTENSION OF HOLE M3. THIS HOLE IS LOCATED ON CLAIM P. 1112774 610'W 100'n of POST #2. THIS HOLE WAS PREVIOUSLY DRILLED TO 540', THE EXTENSION TOOK IT TO 692'. THE EXTENSION WAS DONE AS THE HOLE HAD STOPPED JUST AS IT WAS ENTERING A CHANGE WITH VALUES INCREASING AND EVIDENCE OF THE SHEAR ZONE BEGININNG THE HOLE HAD TO BE STOPPED AS THE HOLE FLATTENED OUT TO THE POINT THHAT DRILLING COULD GO NO FURTHER. THIS IS UNFORTUNATE AS WE HAD REACHED THE SHEAR ZONE BUT DID NOT PASS THROUGH IT. 10

HOLE c93-1 WAS SET UP AT L14+25E 24+40S+ 20'E, WITH A BEARING OF 7 DEGREES AND A DIP OF 45 DEGREES. THIS LOCATION WAS CHOOSEN TO TRY TO CROSS CUT THE SHEAR ZONE IN HOLE M3. ALTHOUGH A FAULT AND A SHEAR ZONE WERE ENCOUNTERED IT IS NOT BELIEVED TO BE THE SAME ZONE.

THE DRILLING WAS DONE BY LARRY SALO WITH A BBS2 DIAMOND DRILL. THE HELPER WAS RON CRICHTON. THE CORE SIZE IS ADBGM MEASURING 1.2". THE TOTAL DEPTH WAS 402'. CONCLUSIONS

OVERALL THIS PROJECT WAS VERY INFORMATIVE. ALTHOUGH THERE WAS NO SPECTACTULAR RESULTS OR ANY OF SURPRISE, THE PROGRAM DOES SHOW THERE IS STILL MERIT IN THE SWAYZE AREA. THE STRIPPING RETURNED LOW ASSAY VALUES, HOWEVER THEY PROVE THAT THERE IS A PRESENCE OF GOLD AND SILVER IN THE PORPHYRITIC ROCKS IN THE NORTHERN PORTION OF THE PROPERTY. THE MAGNETOMETER SURVEY FURTHER ENCOURAGES THE NORTH AND NORTH EAST AREAS OF THE PROPERTY TO BE FURTHER LOOKED AT IN ORDER TO EXPLAIN 14

SOME OF THE VALUES OBTAINED.

ALTHOUGHT THE V.L.F. DID NOT CONCUR WITH THE MAGNETOMETER SURVEY, THEY DID PICK UP SEVERAL CONDUCTORS THAT WERE NOT IN EVEDENCE DUE TO EITHER WATER OR SWAMP.

DRILL HOLE M3 EXTENDED TO CUT EVIDENCE OF SHEARED VOLCANICS. THIS IT DID. DRILL HOLE C93-1 WAS SET UP TO TRY TO CUT THE SAME SHEAR ZONE FROM THE SOUTH. ALTHOUGH A FAULT WAS ENCOUNTERED AND SOME FOLIATED TO SHEARING WAS SEEN IT IS NOT BELIEVED TO BE THE SAME SHEAR ZONE.

RECCOMMENDATIONS:

- 1. A GEOLOGICAL SURVEY TO BE CARRIED OUT ON THE NORTH SECTION OF THE GRID TO BETTER EVALUATE THEROCKS AND MAGNETIC PATTERNS. THIS SHOULD INCLUDE A DETAILED GRID LINE SURVEY, PLUGGER SAMPLING OF THE MAGNETIC VALUES HIGHER THAN 58950.
- ②. A DRILL HOLE TO TEST CONDUCTOR A OF THE VLF. THIS HOLE SHOULD BE PLACED AT L10+25E 8+00S Az 30 DIP 45 TO A DEPTH NO SHORTER THAN 400'.



3. A DRILL HOLE TO TEST CONDUCTOR D OF THE VLF. HOLE C 93-1 COULD BE CONTINUED ANOTHER 250' TO PICK UP THE SHEAR ZONE ENTERED IN HOLE M3. $F_{\rm c}$

DEPENDING ON THE ASSAY RESULTS AND THE WORK OF THE ABOVE RECCOMMENDATIONS FURTHER DRILLING AND OR A MAX-MIN SURVEY WILL GIVE FURTHER DIRECTION TO APPROACHING THIS PROPERTY.

PHOTOS





PICKET LINE WORK ON CUCKOO LAKE PROPERTY



BASE LINE CUCKOO LAKE PROPERY

CUCKOO LAKE PROPERTY SWAYZE TOWNSHIP

CLAIM MAP SECTION LOCATION MAP

APPENDAGE 1







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CUCKOO LAKE PROPERTY

SWAYZE TOWNSHIP

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STRIPPING SKETCH

APPENDAGE 2



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CUCKOO LAKE PROPERTY

SWAYZE TOWNSHIP

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TOPOGRAPHICAL FEATURES

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APPENDAGE 3

CUCKOO LAKE PROPERTY

SWAYZE TOWNSHIP

V.L.F. E.M. 16 PROFILES

APPENDAGE 4

Pioneered and patented exclusively by Geonics Limited, the VLF method of electromagnetic surveying has been proven to be a major advance in exploration geophysical instrumentation.

Since the beginning of 1965 a large number of mining companies have found the EM16 system to meet the need for a simple, light and effective exploration tool for mining geophysics.

The VLF method uses the military and time standard VLF transmissions as primary field. Only a receiver is then used to measure the secondary fields radiating from the local conductive targets. This allows a very light, one-man instrument to do the job. Because of the almost uniform primary field, good response from deeper targets is obtained.

The EM16 system provides the *in-phase* and *quadrature* components of the secondary field with the polarities indicated.

Interpretation technique has been highly developed particularly to differentiate deeper targets from the many surface indications.

Principle of Operation

The VLF transmitters have vertical antennas. The magnetic signal component is then horizontal and concentric around the transmitter location.

Specifications



Source of primary field	VLF transmitting stations.	Reading time	10-40 seconds depending on signal strength.
Transmitting stations used	Any desired station frequency can be supplied with the instrument in the	Operating temperature range	40 to 50° C.
	tuning units can be plugged in at one time. A switch selects either station.	Operating controls	ON-OFF switch, battery testing push button, station selector, switch,
Operating frequency range	About 15-25 kHz.		volume control, quadrature, dial ± 40%, inclinometer dial ± 150%.
Parameters measured	(1) The vertical in-phase component (tangent of the tilt angle of the polarization ellipsoid	Power Supply	6 size AA (penlight) alkaline cells. Life about 200 hours.
	(2) The vertical out-of-phase (quadra-	Dimensions	42 x 14 x 9 cm (16 x 5.5 x 3.5 in.)
	polarization ellipsoid compared to the	Weight	1.6 kg (3.5 lbs.)
Method of reading	In-phase from a mechanical inclino- meter and quadrature from a calibrated dial. Nulling by audio tone.	Instrument supplied with	Monotonic speaker, carrying case, manual of operation, 3 station selectc plug-in tuning units (additional fre- quencies are optional), set of batterie
Scale range	In-phase \pm 150%; quadrature \pm 40%.	Shipping weight	4.5 kg (10 lbs.)
Readability	± 1%.		

CUCKOO LAKE PROPERTY SWAYZE TOWNSHIP

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TOTAL FLELD MAGNETOMETER CONTOURS

APPENDAGE 5

1.2 EARTH'S MAGNETIC FIELD

Figure 1 shows nominal distribution of Earth's magnetic field in kilogammas, with dotted lines separating equatorial and polar regions. In polar regions an inclination of magnetic field vector is closer to vertical, while in equatorial regions it is nominally horizontal. To obtain the best precession signal and superior quality of operation, the sensor must be aligned accordingly. Orientation line at the side of the sensor should be oriented vertically in polar regions and horizontally in equatorial regions. Although maximum signals are achieved by aligning the sensor orientation line close to the actual direction of the magnetic field, it is generaly not necessary to go beyond horizontal/vertical orientation mentioned above.

Range position on a front panel of the instrument should initially be selected closest to a nominal value of magnetic field shown for particular region in fig.1. As local distributions of magnetic field could be considerably altered, a proper range position should be determined by first valid reading of the magnetometer (first two digits of the display show a real magnetic field value for the place of measurement). During a survey, the field value may change beyond initially used range and the Range switch position should be adjusted accordingly, although the GSM-8 will generally work correctly on several adjacent ranges.

Local ferromagnetic objects like screws, nuts, pocket knives, nickel coins, wristwatches, tools etc. may impair the quality of measurement by modifying the value of local magnetic field being measured or in drastic cases by even destroying the proton precession signal due to excessive gradients. For best results ferromagnetic objects should be kept away from the sensor. NiCd batteries, although slightly magnetic, do not produce visible effect on measurements if the sensor is installed on the staff and kept at arms length away from the operator and the console. For back-pack installation of the sensor a nonmagnetic set of batteries is recommended. 2. SPECIFICATIONS

RESOLUTION:

ACCURACY:

RANGE:

GRADIENT TOLERANCE:

OPERATING MODES:

OUTPUT:

EXTERNAL TRIGGER:

POWER REQUIREMENTS: POWER SOURCE:

BATTERY CHARGER:

OPERATING TEMPERATURE:

1 gamma, 0.5 gamma optional

il gamma over operating range

20,000-100,000 gamma in 23 overlapping steps

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Up to 5000 gamma/metre

MANUAL PUSHBUTTON, new reading every 1.85 sec., display active between readings

CYCLING, pushbutton initiated, 1.85 sec. period

SELFTEST, pushbutton controlled, 7 sec. period

VISUAL: 5 digit 1 cm (0.4") high Liquid Crystal Display, visible in any ambient light

DIGITAL: Multiplied precession frequency and gating pulse

ANALOG: Optional 0-99 or 0-999 gamma

Permits externally triggered operation with periods longer than 1.85 sec. (optional minimum period 0.9 sec.)

12V 0.7A peak, 5mA standby

INTERNAL: 12V 0.75Ah NiCd rechargeable battery 3,000 readings per full charge

EXTERNAL: 12-18V

Input: 110/220V 50/60Hz; output: 14V 75mA DC

-35 to +55C

CUCKOO LAKE PROPERTY

SWAYZE TOWNSHIP

DRILL LOGS

APPENDAGE 6

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CUCKOO LAKE PROPERTY SWAYZE TOWNSHIP

DRILL SECTIONS

appendage 7

3	l l		
100-0-03-1		VESTIC	
DD =C=15-1	N	VERIC	AL VIEW
		DD-C-	93-1
	V	5	AMPLE #
	4	-	1434
2-1NCH	COLLA	R DD-C-93-1	1435
100 FEET	OVERBI	RDEN 9'	1436
			1437
BEARING OF HOLE FROM			1438
TRUE NORTH - 7° E			1439
			1440
DIP OF HOLE AT COLLAR.	FELDSA	PAR PORPHYR	y 1441
45°			1442
۴.			1443
CLAIM # 182448			1444
			1445
GRID LOCATION			1446
* 1 L-1425E + 2440.5 + 20E			1447
TOTAL FOOTAGE - 402'	132.51		1448
			1449
DD-CORE SIZE			1450
ABDGM			1451
			1452
SWAYZE TWP			1453
3	MAFIC	VOLCANIC	1454
	(BR	SALTIC)	1455
		····· /	1456
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HORIZONTAL VIEW DD-C-93-1			459
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CUCKOO LAKE PROPERTY

SWAYZE TOWNSHIP

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ASSAYS

APPENDAGE 8



Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Assay Certificate

2W-1003-RA1

Company: R. CRICHTON

Date: SEP-16-92

Project: Attn:

We hereby certify the following Assay of 5 ROCK samples submitted SEP-14-92 by .

Sample	Au A	w check	Ag	Co	Cu	Mo	Ni	Рь	Zn	
Number	oz/ton	oz/ton	oz/ton	PIM	PIM	PIM	PIM	PBM	PEM	
1429	0.002		0.01							
1430	0.001		0.01							
1431	1.370	1.386	0.34							
1432	0.004		0.01							
1433	0.001		0.05	61	218	9	51	27	330	

1433 - #1182006

charles Sulphide Blowing

Jonna of Certified by_

P.O. Box 10, Swastika, Ontario P0K 1T0 Telephone (705) 642-3244 FAX (705) 642-3300



DRILL CORE HAS BEEN SENT TO SWASTIKA LABS, SWASTIKA ONTERIO. RESULTS WILL BE FORWARDED AS QUICKLY AS POSSIBLE.



CUCKOO LAKE PROPERTY SWAYZE TOWNSHIP

RECEIPTS

APPENDAGE 9

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PROSPECTING DAY SWAYZE SULPHIDE SHOWING§

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APPENDAGE 10



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ON PREVIOUS WORK ON CLAIM P.1 β 2006, SWAYZE TOWNSHIP, CONSISTED OF PROSPECTING TO LOCATE THE SOURCE OF AN AIRBORNE ANOMALIE. A LARGE WEATHERED MASSIVE SULPHIDE FLOAT WAS FOUND. THE AREA WAS STRIPPED AND A PIT 10 x 12 x 10 WAS PUT DOWN ON THIS SULPHIDE BURN.

A REPRESENTATIVE SAMPLE TAKEN BY HAMMER WAS COLLECTED OVER THE SULPHIDE PIT AREA. THE ASSAY VALUES WERE DISAPPOINTING LOW FOR AU, AG, CO, CU, Mb, Ni, Pb, Zn. Results found in assay section ofprogram.





SULPHIDE PIT



MASSIVE SULPHIDE



SAMPLING SWAYZE SULPHIDE ZONE



MASSIVE SULPHIDE





Ministry of Northern Development Développement du Nord and Mines

September 9, 1993

Ministère du et des Mines Geoscience Approvals Section 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 685

Telephone: (705) 670-5853 Fax: (705) 670-5863

Our File: 2.15105 Transaction #: W9360.00113 .00114

Mining Recorder Ministry of Northern Development and Mines 60 Wilson Avenue 1st Floor Timmins, Ontario P4N 2S7

Dear Sir/Madam:

Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS P1182447 ET AL IN SWAYZE TOWNSHIP

The assessment work credits for Geophysics, Section 14 of the Mining Act Regulations, have been approved as outlined on the original submission.

The approval date is August 24, 1993.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5855.

Yours sincerely,

-mCG Ron C. Gashinski Senior Manager, Mining Lands Section Mining and Land Management Branch Mines and Minerals Division



D

cc: Resident Geologist Timmins, Ontario

Assessment Files Library Toronto, Ontario

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sonal Information collect collection should be di bury. Ontario_#3E 6A5	ed on this form is rected to the Pr , telephone (705	s obtained under ovincial Manage i) 670-7264.	the authority of th r, Mining Lands,	e Mining Act. This I Ministry of Norther	information will b in Development	e used for co and Mines, i	Fourth	ndence Floor, '	. Questio 159 Ceda	ns about r Street,
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Tructions: - Pleas - Refer	to the Minir	nt and subming Act and Re	it in duplicate.	requirements o	of filing asses	sment wo	rk or o	consu	it the M	Ining
Reco	rder.	f this form m	uet he compl	ated for each M	Vork Group					
- Tech	nical reports	and maps m	ust accompan	iy this form in d	uplicate.					۰.
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Northern Development

Ministère '' Dévelopi unt du Nord et des name for Assessment Credit

État des coûts aux fins . du crédit d'évaluation

Mining Act/Loi sur les mines

rsonal information collected on this form is obtained under the authority the Mining Act. This information will be used to maintain a record and going status of the mining claim(s). Questions about this collection should directed to the Provincial Manager, Minings Lands, Ministry of Northern welopment and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario IE 6A5, telephone (705) 670-7264.

Direct Costs/Coûts directs

Туре	Description	Amount Montant	Totals Total global
Vages Jaiaires	Labour Main-d'oeuvre	3720-	
	Field Supervision Supervision sur le terrain		
contractor's ind Consultant's	Туре		
Proité de Proité de Pentrepreneur	•		
et de l'expert- onsell			
Supplies Used	Type OFFICE	114 78	
111119008	BUSH	46198	
	MISC	4507	
Equipment Tental	TYPO ATU	420-	
natériei	MAG	105-	
	VLF EM.14	105-	
	Total Di Total des coú	rect Costs Its directs	197183

ote: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

iling Discounts

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

otal Value of Assessment Credit Total Assessment Claimed $\times 0.50 =$

ertification Verifying Statement of Costs

hereby certify:

at the amounts shown are as accurate as possible and these costs ere incurred while conducting assessment work on the lands shown in the accompanying Report of Work form.

gent I am authorized Company)

> make this certification

Les renseignements personnels contenus dans la présente, primule sont recueillis en vertu de la Loi aur les mines et serviront à tenir à foir un registre des concessions minières. Adresser toute quesiton sur la politice de ces renseignements au chef provincial des terrains miniere ministère du Développement du Nord et des Mines, 159, rue Cedar, 4° et re, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

Transaction No./Nº de transaction

W9360.00113

2. Indirect Costs/Coûts Indirects

* Note: When claiming Rehabilitation work indirect costs are not allowable as assessment work. Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que fravaux d'évaluation.

Туре	Descrip	tion	Amount Montant	Totals Total global
Transportation Transport	Type TRUCK			
	1500 km	\$300	450-	
				- 44
Food and Lodging Nourriture et hébergement	GROCEDZ	।হেহ	10267	
Mobilization and Demobilization Mobilisation et démobilisation		,		
A	Sub To , Total partiel	tal of Indi des coût	rect Costá s Indirecta	
Amount Allowable Montant admissible	(not greater than (n'excédant par	20% of Di 20% des	rect Costs) coûts directs)	74 684
Total Value of Ass Total of Direct and ndirect costs)	essment Credit Allowable	Valeur tota d'évaluatio (Total des c et indirects	ele du crédit on oùts directs admissibles	165

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Remises pour dépôt

- 1. Les travaux déposés dans les deux ans suivant leur achêvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs cl-dessous.

Valeur totale du crédit d'évaluation ×	DECENT WIGE TRAYCO	
Attestation de l'état des c	MAY \$1 100 113 (c) 4.00	

J'atteste par la présente :

que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____jé suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Date

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

Work Aleport Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Accessment Work Dom on this Clai
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	P.1182447	1	1491
	P.182448.	1	1491
	P.1182169)	·B
	P.11821TO-	1	1491
	P.1182171	1	Ø
	P.183172	1	149:
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Ontario			Minin	g Act	·	-		
Personal Informa this collection at Sudbury, Onte	tion collected ould be direc P3E 6A5, to	on this form is obtain ted to the Provincial slephone (705) 670-7.	ed under the authority Manager, Mining Lar 264.	of the Mining Act. Ti nds, Ministry of Nori	his information will b thern Development	e used for corresp and Mines, Fourth 151	ondence. Questio Floor, 159 Code	ns about ir Street,
Instructions:	 Please Refer to Record 	type or print and o the Mining Act er.	I submit in duplic and Regulations	ate. for requirement	s of filing asses	sment work or	consult the N	lining
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Recorded Holder	°C Mo	RTIMER	2.			Client No.	190	
Address Box 13/	Hur	101 10) 85	CABIN STORM	HI TI CREEK (mmins,0n ABINS	T. Telephone No 339	-2218	
Mining Division	PORCL	IPINE	Township/Are	YZE 7	TWP	CQM or G Plan F	249	
Dates Work Performed	From:	SEPT	18/92	To	SEP	T 18/9	'>	
Work Perfor	med (Chec	k One Work Gro	up Only)				_	
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Physical V Including	Vork, Drilling							
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Total Assessment Work Claimed on the Attached Statement of Costs

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Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

MAY 31 1993

Receipt

300

\$

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
R. Crichton	15 TWEEDSMUIR, KIRKLAND LAKE
J.G. 3ALD	Gen Del. Connaught Out.
,	

(attach a schedule if necessary)

Assays

Assignment from Reserve

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date MAYZS16=	Recorded Holder or Agent (Signature)
		gove :

Certification of Work Report

i certify that I have a perso its completion and annexe	onal knowledge of the facts set forth d report is true.	In this Work report, having per	formed the work or witnesse	ed same during and/or after
Name and Address of Person	Certifying			
JOE-ANN	E 65ALO			
Telepone No.	Date	Certified By (S	lignature	
705-363-2	108 May 25	193 4	Kali	
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0241 (03/91)	1	· · · · · · · · · · · · · · · · · · ·		4.00

Work Report Number for Applying Reserve	Cleim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date	ate from	
C	P 1182006	-14	300-	300 -	0	0	e indici	tc., wh
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for Assessment Credit

État des coûts aux fins . du crédit d'évaluation

Mining Act/Loi sur les mines

onal information collected on this form is obtained under the authority e Mining Act. This information will be used to maintain a record and ing status of the mining claim(s). Questions about this collection should rected to the Provincial Manager, Minings Lands, Ministry of Northern lopment and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario 6A5, telephone (705) 670-7264.

Pirect Costs/Coûts directs

Туре	Description	Amount Montant	Totais Totai giobai
jes . alres	Labour Main-d'oeuvre	300-	
	Field Supervision Supervision sur le terrain		
itractor's i Consultant's	Туре		
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. <u>.,</u>	Total Direct Costs Total des coûts directs		

S: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

ig Discounts

Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.

Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

11 Value of Assessment Credit Total Assessment Claimed × 0.50 =

tification Verifying Statement of Costs

reby certify:

the amounts shown are as accurate as possible and these costs e incurred while conducting assessment work on the lands shown he accompanying Report of Work form.

(Recorded Holder, Agent, Position in Company) am authorized

nake this certification

Les renseignements personnels contenus dans la présenté, formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute quesiton sur la collece de ces renseignements au chef provincial des terrains miniers, fininistère du Développement du Nord et des Mines, 159, rue Cedar, 4^o étáge, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

2. Indirect Costs/Coûts Indirects

- ** Note: When claiming Rehabilitation work indirect costs are not allowable as assessment work.
 - Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Туре	Descrip	tion	Amount Montant	Totals Total global
Transportation Transport	Туре			
		•		
				•
Food and Lodging Nourriture et hébergement				
Mobilization and Demobilization Mobilisation et démobilisation				
.	Sub To Total partiel	tal of India des coûte	rect Costs Indirects	4.457.44
Amount Allowable (Montant admissible	not greater than (n'excédant pai	20% of Dir 20% des	ect Costs) coûts directs	
Total Value of Assessment Credit Total of Direct and Allowable indirect costs)		Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles		

Note : Le titulaire enregistré sera tenu de vérifier les dépensée demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre pêut rejeter tout ou une partie des travaux d'évaluation présentés.

Remises pour dépôt

- 1. Les travaux déposés dans les deux ans suivant leur achêvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- 2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calcuis ci-dessous.

Valeur totale du crédit d'évaluation × 0. Attestation de l'état des coûts

J'atteste par la présente :

que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail cl-joint.

Et qu'à titre de _____jé suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Date Signature Nota : Dans cette formule dorsqu'il désigne des personnes, le masculin est utilisé au sens neutre

Nota : Dans cette formule(Aorsqu'il

(04/91)

REFERENCES AREAS WITHDRAWN FROM DISPOSITION M.R.O. - MINING RIGHTS ONLY S.R.O. - SURFACE RIGHTS ONLY M.+ S. - MINING AND SURFACE RIGHTS THE INFORMATION THAT APPEARS ON THIS MAE HAS BEEN COMPLEED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED THOSE WISHING TO STAKE MIN ING CLAIMS SHOULD CON-SULT WITH THE MINING RECORDER MINISTRY OF NORTHERN DEVELOP MENT AND MINES FOR AD DITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON



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