



41O15SE0049 OP92-814 SWAYZE

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CUCKOO LAKE PROPERTY

SWAYZE TOWNSHIP

FINAL SUBMISSION

OPAP 92-814

RON CRICHTON

JANUARY 1993

CUCKOO LAKE PROPERTY

SWAYZE TOWNSHIP

TABLE OF CONTENTS

TABLE OF CONTENTS	PG 1
INTRODUCTION.....	PG 2
PURPOSE.....	PG 2
LOCATION AND ACCESS.....	PG 3
PROPERTY DESCRIPTION.....	PG 4
METHOD.....	PG 5
TOTAL FIELD MAGNETOMETER	
V.L.F. E.M. 16	
DIAMOND DRILLING	
STRIPPING	
DISCUSSIONS.....	PG 8
STRIPPING.....	PG 9
TOTAL FIELD MAGNETOMETER.....	PG 10
V.L.F. E.M. 16.....	PG 11
DIAMOND DRILLING.....	PG 13
CONCLUSIONS.....	PG 14
RECOMMENDATIONS.....	PG 14
CLAIM MAP AND LOCATION MAP	APPENDAGE 1
STRIPPING SKETCH.....	APPENDAGE 2
TOPOGRAPHICAL MAP.....	APPENDAGE 3
V.L.F. E.M. 16 PROFILES.....	APPENDAGE 4
MAGNETOMETER CONTOUR MAP.....	APPENDAGE 5

4101SSE0049 OP92-814 SWAYZE

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DRILL LOGS.....	APPENDAGE 6
DRILL SECTIONS.....	APPENDAGE 7
ASSAYS.....	APPENDAGE 8
RECEIPTS.....	APPENDAGE 9

PROSPECTING SWAYZE SULPHIDE SHOWING	APPENDAGE 10
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INTRODUCTION:

THIS FIVE CLAIM PROPERTY CONSISTS OF FIVE CONTIGUOUS CLAIMS IN SWAYZE TOWNSHIP, PORCUPINE MINING DIVISION. THEY ARE NUMBERED 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:

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.

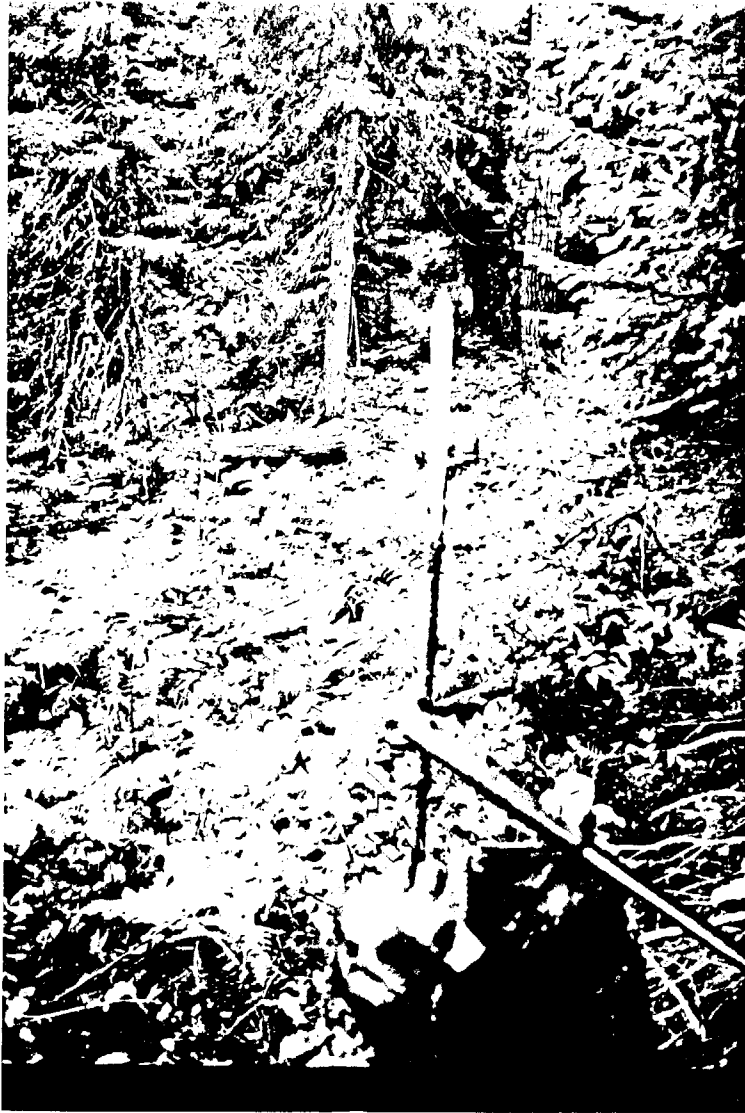
THE NORTH AND NORTHEAST PORTION OF THE PROPERTY HAS VERY HIGH ROLLING HILLS, WITH OUTCROP DROPPING DOWN STEEPLY INTO THE LAKE. THESE HILLS ARE VERY STEEP CLIFFS IN THE VERY NORTHEAST CORNER OF THE CLAIMS.

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 SOUTH OF 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.

PHOTOS



BASE LINE COCKOO LAKE PROPERTY



PICKET LINE WORK ON CUCKOO LAKE PROPERTY

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. 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+25E 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. DIURNAL DRIFT WAS CORRECTED AND CONTROLLED BY NOTING THE TIME AND LOOPING THE GRID LINES WITH EACH OTHER AND THE CONTROL 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 WAS 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 AT 6=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 DOWN BY 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 BBS 2 DRILL WITH ADEGM 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 OPPOSED 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.

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 ENTIRE LENGTH OF THE QUARTZ IS WELL MINERALIZED. OXIDIZATION 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 WAS NEVER 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 PORPHYRY WITH FINE GRAINED DISSEMINATED 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 PORPHYRY IS OF THE SAME TYPE THAT WAS FOUND NEAR THE SHOWINGS OF CREE LAKE. THE THIRD IS A LARGE PORHRY OUTCROP ON THE SOUTHWEST CORNER OF 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 OCTOBER 1992 BY RON CRICHTON AND STEVE POLSON.

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 PORPHYRY. 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 RECOMMENDED 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.

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.

Cutler MAINE

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 RECOMMENDED THAT TWO MORE
DRILL HOLES BE DONE. SEE RECOMMENDATIONS FOR POSSIBLE LOCATIONS.

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 BEGINNING THE HOLE HAD TO BE STOPPED AS THE HOLE FLATTENED OUT TO THE POINT THAT DRILLING COULD GO NO FURTHER. THIS IS UNFORTUNATE AS WE HAD REACHED THE SHEAR ZONE BUT DID NOT PASS THROUGH IT.

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 CHOSEN 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 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 EVIDENCE 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.

RECOMMENDATIONS:

1. A GEOLOGICAL SURVEY TO BE CARRIED OUT ON THE NORTH SECTION OF THE GRID TO BETTER EVALUATE THE ROCKS 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.

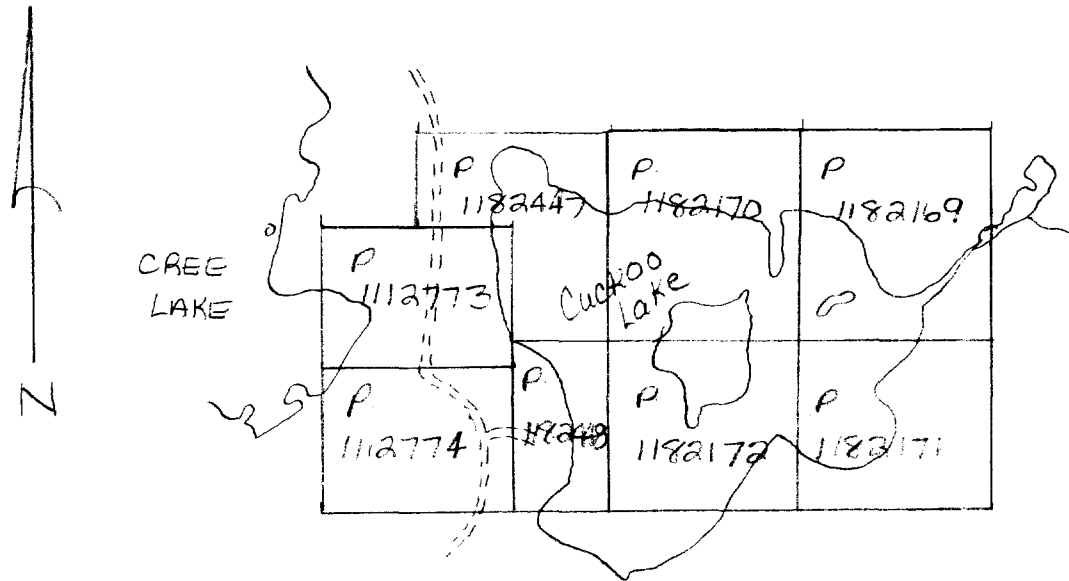
DEPENDING ON THE ASSAY RESULTS AND THE WORK OF THE ABOVE RECOMMENDATIONS FURTHER DRILLING AND OR A MAX-MIN SURVEY WILL GIVE FURTHER DIRECTION TO APPROACHING THIS PROPERTY.

CUCKOO LAKE PROPERTY
SWAYZE TOWNSHIP

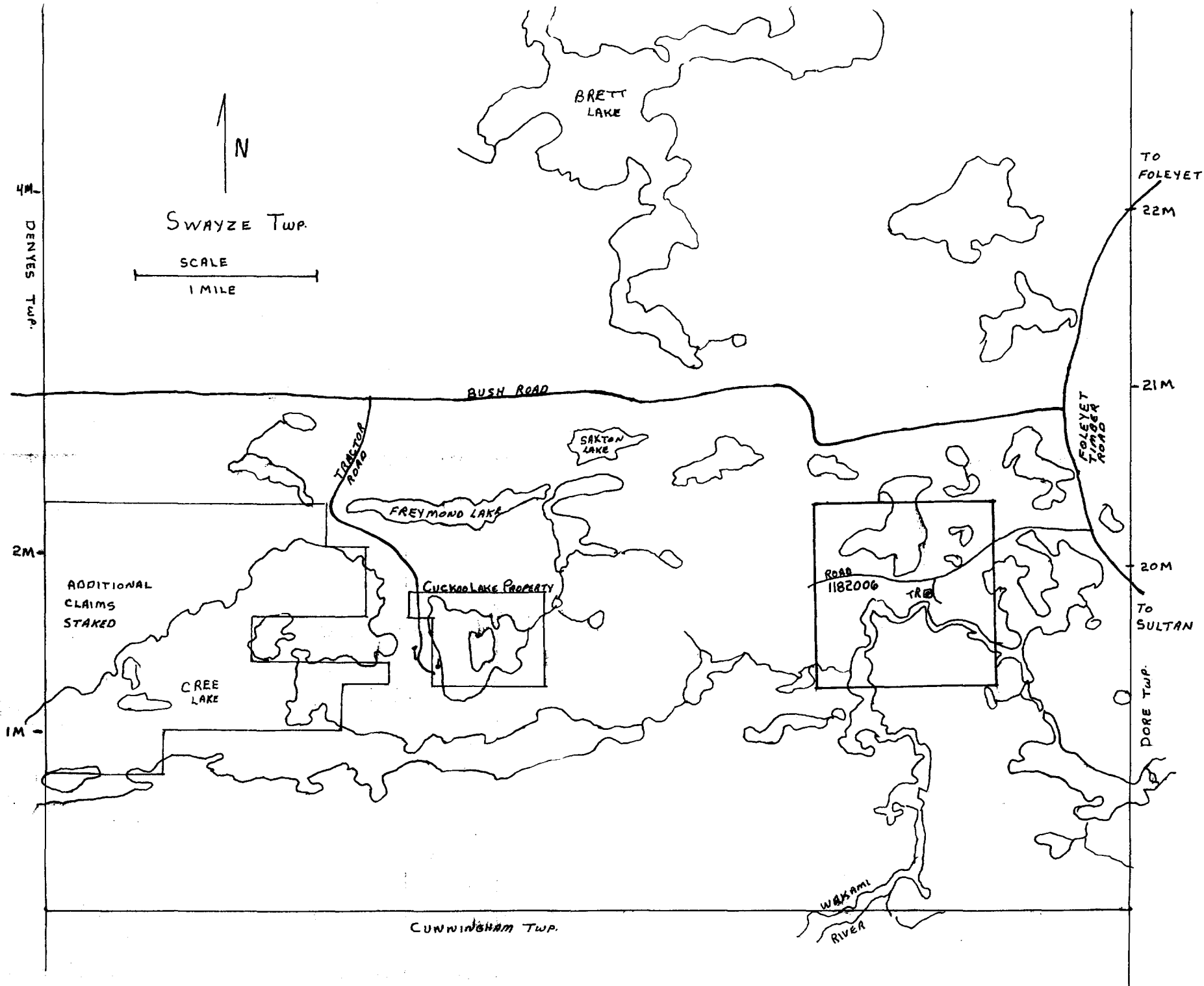
CLAIM MAP SECTION
LOCATION MAP

APPENDAGE 1

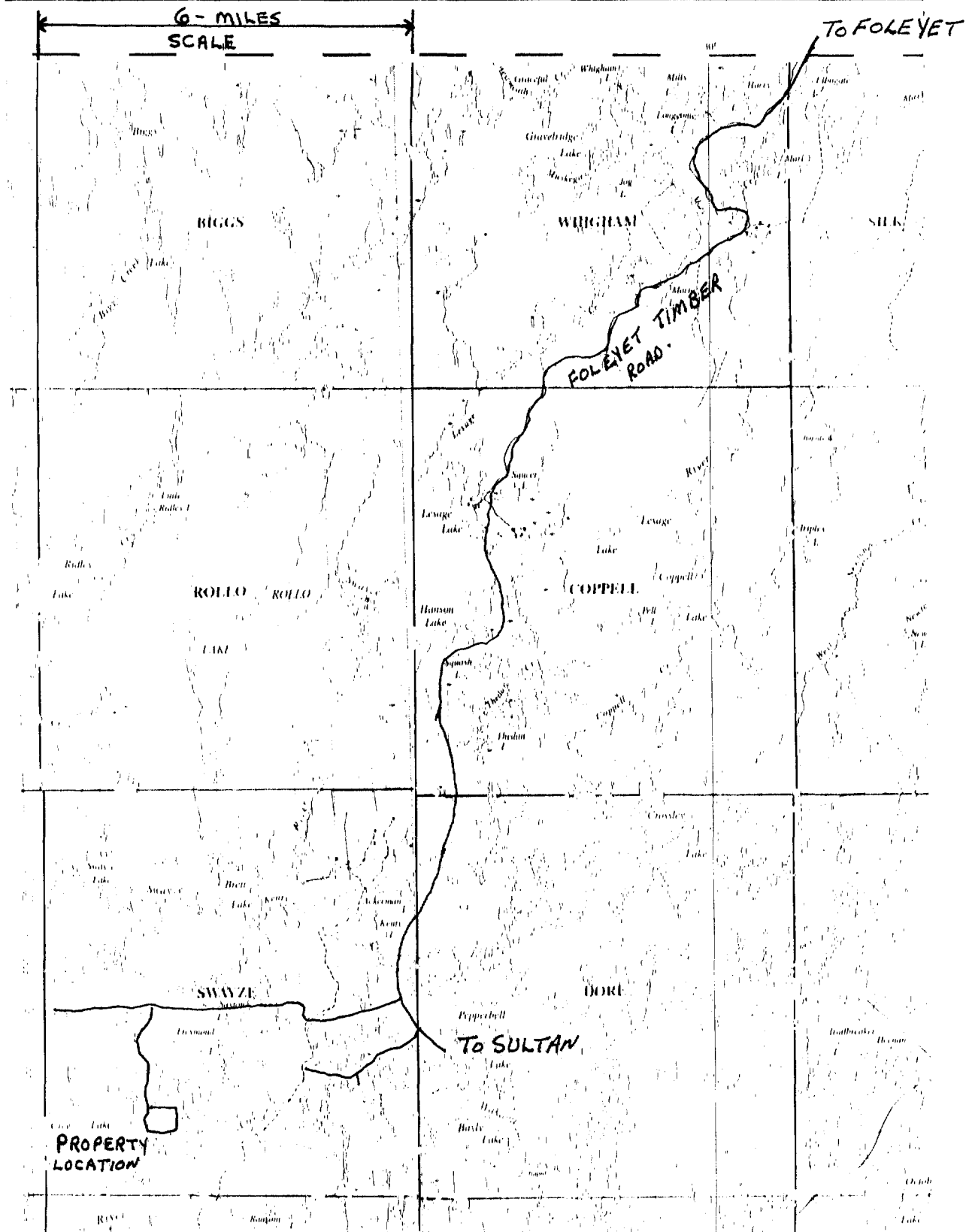
SWAYZE TWP
CLAIM BLOCK
1" = 400 meters



SWAYZE TOWNSHIP
CUNNINGHAM TOWNSHIP
2M



PROPERTY LOCATION MAP

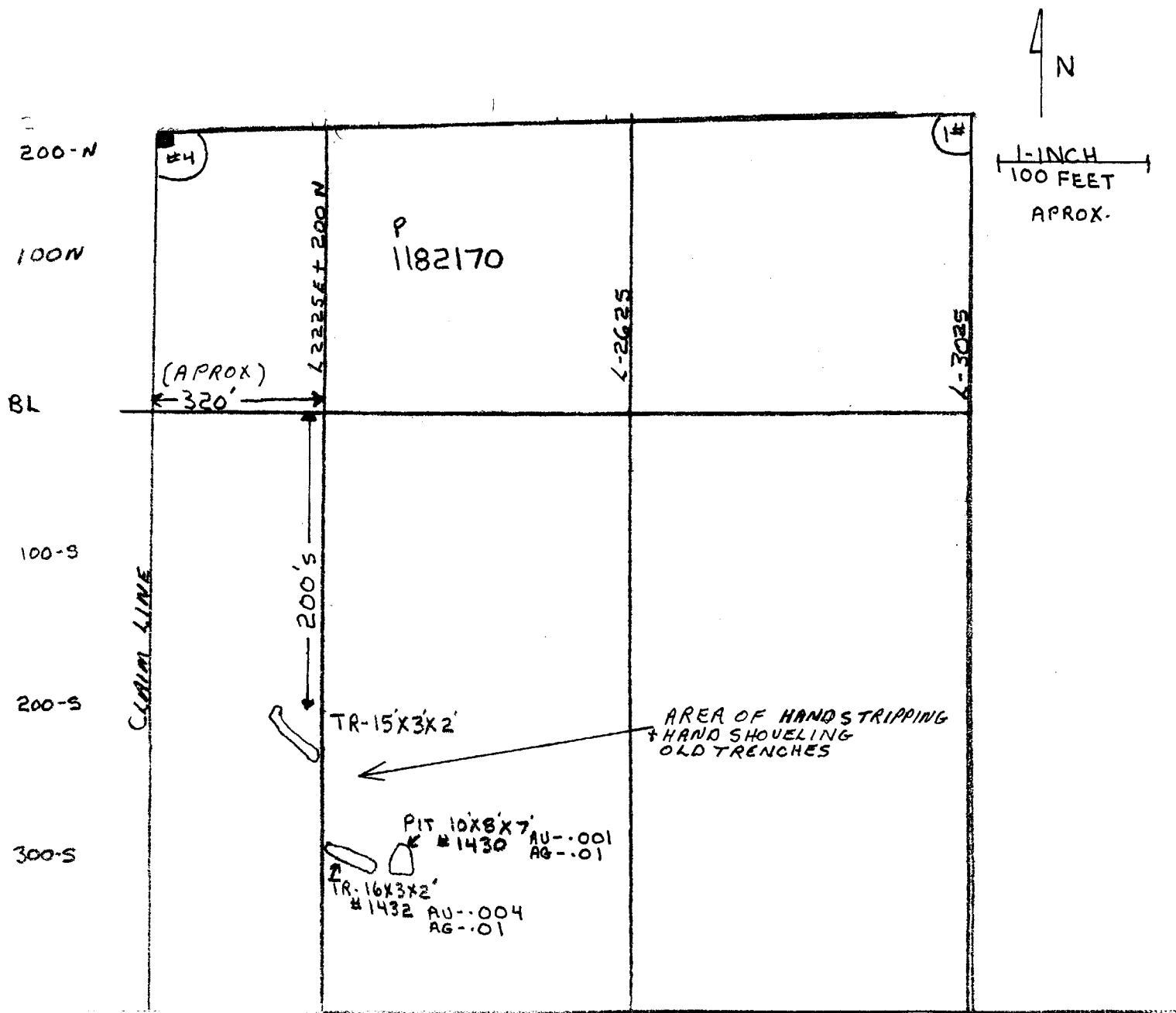


CUCKOO LAKE PROPERTY

SWAYZE TOWNSHIP

STRIPPING SKETCH

APPENDAGE 2



CUCKOO LAKE PROPERTY

SWAYZE TOWNSHIP

TOPOGRAPHICAL FEATURES

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.

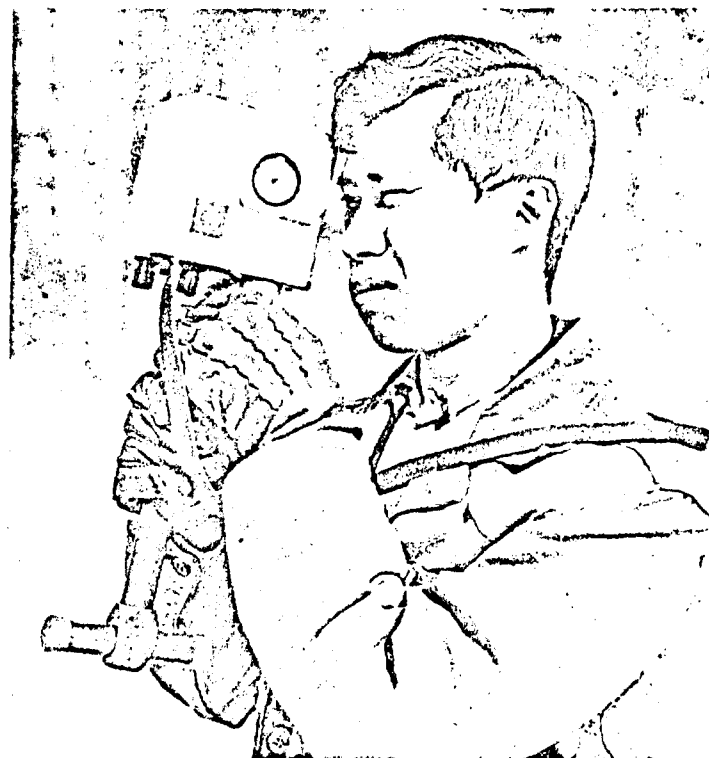
The VLF method uses the military and time standard VLF transmissions as primary field. Only a receiver is then used to measure the secondary fields radiating from the local conductive targets. This allows a very light, one-man instrument to do the job. Because of the almost uniform primary field, good 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 form of plug-in tuning units. Two tuning units can be plugged in at one time. A switch selects either station.	Operating temperature range	-40 to 50° C.
Operating frequency range	About 15-25 kHz.	Operating controls	ON-OFF switch, battery testing push button, station selector, switch, volume control, quadrature, dial $\pm 40\%$, inclinometer dial $\pm 150\%$.
Parameters measured	(1) The vertical in-phase component (tangent of the tilt angle of the polarization ellipsoid). (2) The vertical out-of-phase (quadrature) component (the short axis of the polarization ellipsoid compared to the long axis).	Power Supply	6 size AA (penlight) alkaline cells. Life about 200 hours.
Method of reading	In-phase from a mechanical inclinometer and quadrature from a calibrated dial. Nulling by audio tone.	Dimensions	42 x 14 x 9 cm (16 x 5.5 x 3.5 in.)
Scale range	In-phase $\pm 150\%$; quadrature $\pm 40\%$.	Weight	1.6 kg (3.5 lbs.)
Readability	$\pm 1\%$.	Instrument supplied with	Monotonic speaker, carrying case, manual of operation, 3 station selector plug-in tuning units (additional frequencies are optional), set of batteries.
		Shipping weight	4.5 kg (10 lbs.)



GEONICS LIMITED

Designers & manufacturers
of geophysical instruments
subsidiary of
Deering Milliken Inc.

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CUCKOO LAKE PROPERTY

SWAYZE TOWNSHIP

TOTAL FIELD 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 generally 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: 1 gamma, 0.5 gamma optional

ACCURACY: ± 1 gamma over operating range

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

GRADIENT TOLERANCE: Up to 5000 gamma/metre

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

CYCLING, pushbutton initiated, 1.85 sec. period

SELFTTEST, pushbutton controlled, 7 sec. period

OUTPUT: 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

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

POWER REQUIREMENTS: 12V 0.7A peak, 5mA standby

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

EXTERNAL: 12-18V

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

OPERATING TEMPERATURE: -35 to +55C

DIMENSIONS: CONSOLE: 15x8x15cm (6x3 $\frac{1}{2}$ x6")

SENSOR: 14x7cm dia (5 $\frac{1}{2}$ x3" dia)

STAFF: 175cm (70") extended, 53cm (21") collapsed, or 4 45cm (18") sections

WEIGHT: 2.7kg (6 lb) per standard complete with batte

CUCKOO LAKE PROPERTY

SWAYZE TOWNSHIP

DRILL LOGS

APPENDAGE 6



Mir. y of
Northern Development
and Mines

**Diamond
Drilling
Log**

CORE SIZE ABDGM

Complete this form and
related sketch in duplicate.

Fill in on
every page

Hole No.	Page No.
C-93-1	01
Claim No. P.	
1182448	

Drilling Company SELF	Collar Elevation	Bearing of hole from true North 70° E of N	Total Footage 402	Dip of Hole at Collar 45°	Address/Location where core stored 2206 German Twp. Sale farm	Map Reference No.	Location (Twp., Lot, Con. or Lat. and Long.) SWAYZE TWP G-3249 CUCKOO LAKE PROPERTY
Date Hole Started JAN 28 1993	Date Completed JAN 27 1993	Date Logged JAN-28-93	Logged by M. W. MASSON BSC.	Fl.			
Exploration Co., Owner or Optionee R. CRICHTON	Date Submitted	Submitted by (Signature) 	Fl.				
			Fl.				

Footage (Ft.)		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †	
From	To						From	To			
0	9	OVERBURDEN				1434	85	90	5.0		
						1435	90	95	5.0		
9	132.5	FELDSPAR PORPHYRY	MASSIVE, fine to very fine-grained blue-grey porphyry composed of 1-10% sub-ehedral milk-white feldspar phenocrysts (albite?) up to 2-3mm in a very fine-grained to aplenitic groundmass. Unit is quite inhomogeneous with porphyritic sections grading to non-porphyritic sections. (May be in part altered volcanic?) - very hard, non-magnetic - unit carries prominent quartz + calcite vein set @ 60° to c. (1-2% by vol.) - veins are milk-white to buff often saccharoidal range from hairline cracks to 3/4 inch wide - non-mineralized - unit contains sporadic trace disseminated pyrite as small (<= 2mm) sub-ehedral grains, and grain clusters with dark chloritic rims often evident (secondary). Frequently associated with hairline anastomosing fractures and small pyritic clusters. At 102.0 - 102.8 - Bleached (buff-brown) siliceous section with 1% fine disseminated pyrite - Section is crosscut by irregular white-pink quartz + calcite veins and masses 125.6 - 125.75 - Irregular, white-blue quartz + calcite vein with 1% blebby, subhedral pyrite 128.0 - 129.0 GROUND CORE 130.2 - 2mm wide, semi-massive Pyrite stringer @ 40° to c. - lower contact is broken, rubble but appears to be quite tight			1436	95	100	5.0		
						1437	100	102	2.0		
						1438	102.0	103.0	1.0		
						1439	103.0	105.0	2.0		
						1440	105.0	110.0	5.0		
						1441	110.0	115.0	5.0		
						1442	115.0	120.0	5.0		
						1443	120.0	125.0	5.0		
						1444	125.0	127.0	2.0		
						1445	127.0	129.0	2.0		
						1446	129.0	131.0	2.0		
						1447	131.0	132.5	1.5		

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

† Additional credit available. See Assessment Work Regulations.



Ministry of
Northern Development
and Mines

**Diamond
Drilling
Log**

Complete this form and
related sketch in duplicate.

Fill in on
every page

Hole No. **C-93-1** Page No. **2**
Claim No. **1182448**

Drilling Company		Collar Elevation	Bearing of hole from true North 7°	Total Footage 402'	Dip of Hole at Collar 45°	Address/Location where core stored	Map Reference No.	Location (Twp., Lot, Con. or Lat. and Long.) SWAYZE TWP.
Date Hole Started	Date Completed	Date Logged JAN-28-93	Logged by		Ft.		Property Name CUCKOO LAKE PROPERTY	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature) 		Ft.			
					Ft.			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †	
From	To						From	To			
132.5	285.3	MAFIC Volcanic (BASALTIC)	Massive to weakly foliated, medium to dark green (chloritic) very fine-grained to aphanitic basalt - structureless w/ non-pillowed, non-variolitic etc. - non-descript - moderately to strongly magnetic - contains 2-3% irregular, narrow quartz + calcite veinlets and fracture filling - ubiquitous (= 1cm wide)								
			192.0-219.0 - Unit is stockworked by at least 3 generations a) quartz, quartz + calcite and chlorite + sericite (sepd.) stringers (3-4% vol.) ranging from hairline to 2" wide - generally irregular anastomosing veins - typically barren but occasional vein carries trace - blebby pyrite			1448	195.0	199.0	4.0		
			200.1-200.8 Quartz / calcite vein @ 35' ten with 1% fine disseminated pyrite. Weak buff-brown alteration proximal to vein			1449	199.0	201.0	2.0		
						1450	201.0	204.0	3.0		
						1451	209.0	214.0	5.0		
						1452	214.0	219.0	5.0		
			219.4-232.0 - Unit appears to be somewhat bleached to a light grey colour (similar to porphyry) and is notably siliceous - contacts appear to be gradational over 1 foot - Section contains <1% quartz + calcite stringers and trace disseminated pyrite - non-magnetic, v.f.g. with sporadic mafic ghosts (amphibole?) evident in groundmass								
			219.7-220.6 - Irregular white-buff quartz + calcite vein with 1/2" fine disseminated pyrite and 1-2" wide buff alteration halo.			1453	219.0	221.0	2.0		

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

† Additional credit available. See Assessment Work Regulations.



Min. of Northern Development and Mines

Diamond Drilling Log

Complete this form and related sketch in duplicate.

Fill in on every page

Hole No. C-93-1 Page No. 3

Drilling Company		Collar Elevation	Bearing of hole from true North 7°	Total Footage 402'	Dip of Hole at 45° Collar	Address/Location where core stored	Map Reference No.	Claim No. 1182448	
Date Hole Started	Date Completed	Date Logged	Logged by		Ft.		Location (Twp., Lot, Con. or Lat. and Long.)	SUMAYZE TWP. G-3249	Property Name CUCKOO LAKE
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)		Ft.				
					Ft.				

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †
From	To						From	To		
			230.6-230.8 - 1/4" wide white quartz vein with 3" of buff alteration of wall rock. Altered zone contains 2% pyrite in small fractures and adjacent to vein.			1454	221.0	225.0	4.0	
						1455	225.0	230.0	5.0	
						1456	230.0	231.0	1.0	
						1457	231.0	235.0	4.0	
			At 249.0 and 263.0 ft. are two irregular quartz/calcite veins up to 3" wide. Veins are typically barren but adjacent wall rock contains trace - 1% subhedral pyrite blebs.			1458	249.0	250.0	1.0	
						1459	262.0	264.0	2.0	
285.3	340.0	FELDSPAR PORPHYRY (DIORITIC?)	Light to medium grey, massive, medium-grained, hard. - composed of 2-15% milk-white, anhedral plagioclase crystals and clusters in a v.g. dark grey groundmass - some sections quite coarse, possibly diorite - non-magnetic with trace ubiquitous disseminated pyrite - 1-2% late quartz + calcite stringers - upper contact is sharp intrusive type. No chill margins evident in porphyry - lower contact obscured by rubble core			1460	285.3	290.0	4.7	
						1461	300.0	305.0	5.0	
						1462	320.0	325.0	5.0	
340.0	402.0	MAFIC VOLCANIC (BASALTIC)	From 340.0-371.0 unit is massive to foliated to sheared and displays varying degrees of alteration increasing towards shear zone. Alteration consists of patchwork, buff-brown micritization (?) typically associated with barren quartz + calcite veins. Red - of zones of weak to moderate shearing. - Typically clay with minor scattered disseminated pyrite			1463	335.0	340.0	5.0	



Ministry of
Northern Development
and Mines

**Diamond
Drilling
Log**

Complete this form and
related sketch in duplicate.

Fill in on
every page

Hole No. C-93-1	Page No. 4
Claim No. 1182448	

Drilling Company	Collar Elevation	Bearing of hole from true North 7°	Total Footage 402	Dip of Hole at Collar 45°	Address/Location where core stored	Map Reference No.	Claim No. 1182448
Date Hole Started	Date Completed	Date Logged JAN-28-93	Logged by	Ft.		Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)	Ft.			
				Ft.		SWAYZE TWP. G-3249	
				Ft.		Property Name Cuckoo LAKE	

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †	
From	To						From	To			
			355.7 - 362.0 Well foliated to sheared, micritized volcanic - grades from buff-bronze, micrite (schist) to (moderately well foliated, moderately bleached and micritic) volcanics.			1464	340.0	345.0	5.0		
						1465	345.0	350.0	5.0		
						1466	350.0	355.0	5.0		
			355.7 - 358 - FAULT - sheared micritized volcanics @ 30° to - somewhat angular textured with stretched remnants evident around tight micritic slips. - very minor patchy pyrite throughout (NIL - TRACE)			1467	355.0	358.0	3.0		
						1468	358.0	362.0	4.0		
						1469	362.0	365.0	3.0		
						1470	365.0	370.0	5.0		
402.0	ECH		371.0 - 402.0 Massive, fine-grained, moderately magmatic mafic volcanic. - 1-2% late quartz + calcite stringers.								

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

† Additional credit available. See Assessment Work Regulations.



Min. y of
Northern Development
and Mines

**Diamond
Drilling
Log**

CORE: ABDGM

Complete this form and
related sketch in duplicate.

Fill in on
every page

Hole No. **M3-EXT** Page No. **1**

Drilling Company		Collar Elevation	Bearing of hole from true North	Total Footage	Dip of Hole at Collar	Address/Location where core stored	Map Reference No.	Claim No.	
Date Hole Started	Date Completed	Date Logged	Logged by				2206 German Twp Salon farm	Location (Twp., Lot, Con. or Lat. and Long.)	
Exploration Co., Owner or Optionee		Date Submitted	Submitted by (Signature)					SWAYZE TWP. G-3249	
R. CRIGHTON								Property Name CUCKOO LAKE	
						HOLE EXTENDED FROM PREVIOUS			

Footage		Rock Type	Description Colour, grain size, texture, minerals, alteration, etc.	Planar Feature Angle *	Core Specimen Footage †	Your Sample No.	Sample Footage		Sample Length	Assays †	
From	To						From	To			
540		MAFIC VOLCANIC (MAFIC TUFF)	<ul style="list-style-type: none"> Medium-dark green massive (in part fragmental) mafic volcanic to mafic tuff (breccia). soft, chloritic, non-magnetic, monolithic. Appears to be composed of 2% scattered mafic clasts from 1-10cm in a fine-grained to aphanitic basaltic groundmass. Clasts have mafic very fine-grained to porphyritic with dark subhedral bladed phenocrysts (1-2mm) in an aphanitic groundmass. Frequently 'fragments' have obscured diffuse edges making them difficult to distinguish but may only be in part tuffaceous. unit contains 1-2% (by vol.) ubiquitous quartz + calcite stringers and veinlets, typically irregular and often containing small rock inclusions. barren, non-mineralized, non-descript. 			1471	545.0	546.0	1.0		
						1472	548.5	551.0	2.5		
						1473	557.0	559.0	2.0		
			From 645-665' unit becomes notably well foliated grading to strongly foliated to schistose @ 665'								
			665-692' Moderately well foliated to sheared mafic volcanic (ductile), predominantly chlorite ± sericite alteration.								
			- Section contains 1% (by vol.) quartz + calcite stringers, veins and breccia veins with included wall rock fragments to 1cm.								
			- very minor spotty quartz and pyrite seams up to 2mm wide, sporadically associated with veining, - weak. (Previously sampled)								
			- In places unit has a distinctive laminated appearance with weak to moderate chlorite ± sericite alteration.								
692		EOH									

* For features such as foliation, bedding, schistosity, measured from the long axis of the core.

† Additional credit available. See Assessment Work Regulations.

CUCKOO LAKE PROPERTY

SWAYZE TOWNSHIP

DRILL SECTIONS

APPENDAGE 7

D.D.-M-3
EXTENSION

S
VERTICAL VIEW

1-INCH
100-FEET

BEARING OF HOLE FROM
FROM TRUE NORTH 167° SE

DIP OF HOLE AT COLLAR
40°

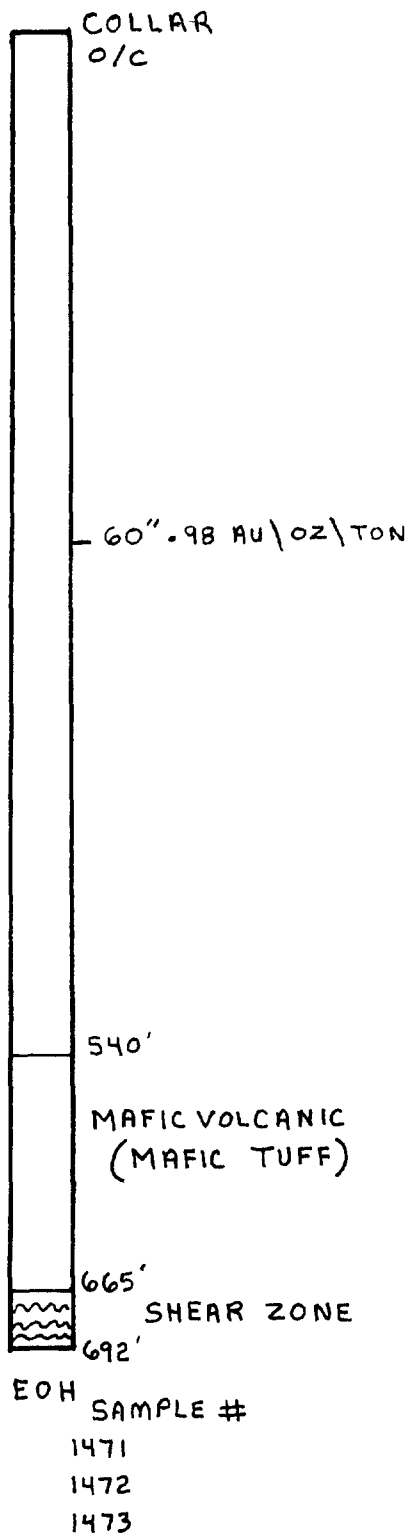
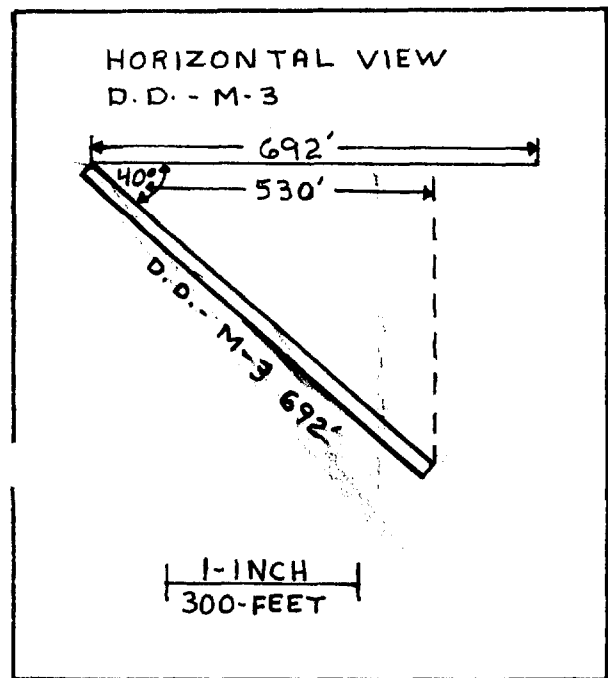
CLAIM #P. 1112773
P. 1112774

LOCATION
610' W + 100' N
OF THE #2 POST
P. 1112774

TOTAL FOOTAGE OF
HOLE EXTENSION
152'
FROM 540' TO 692'

D.D. CORE SIZE
ABDGM

SWAYZE TWP.



DD-C-93-1

VERTICAL VIEW
DD-C-93-1



BEARING OF HOLE FROM
TRUE NORTH - 7° E

DIP OF HOLE AT COLLAR.
45°

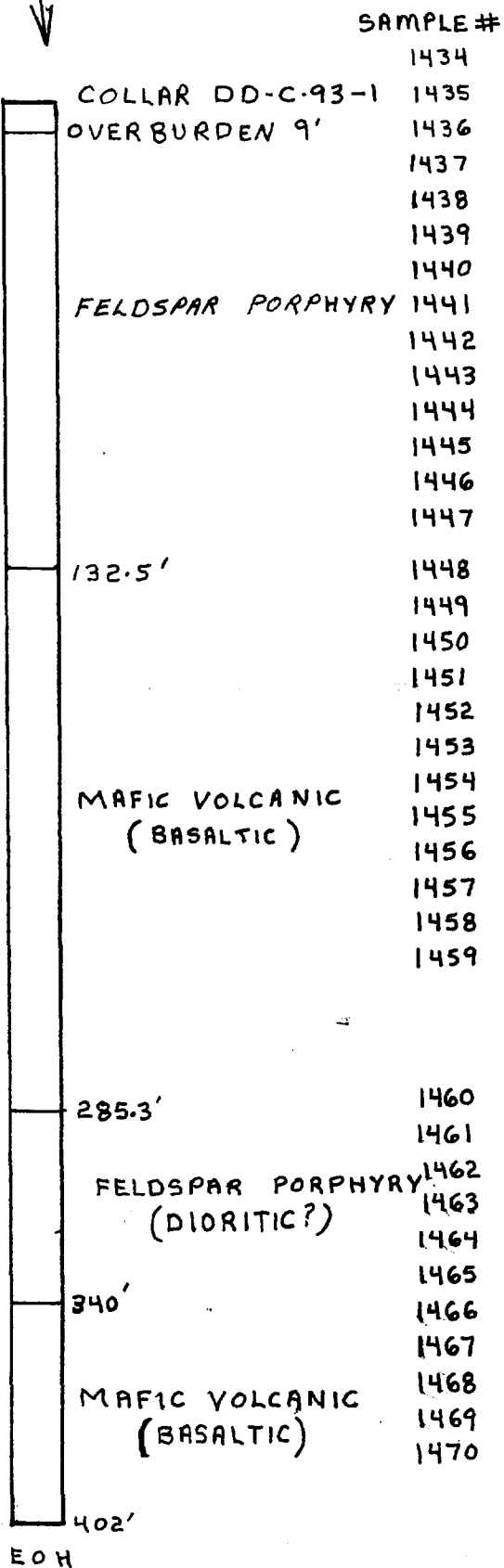
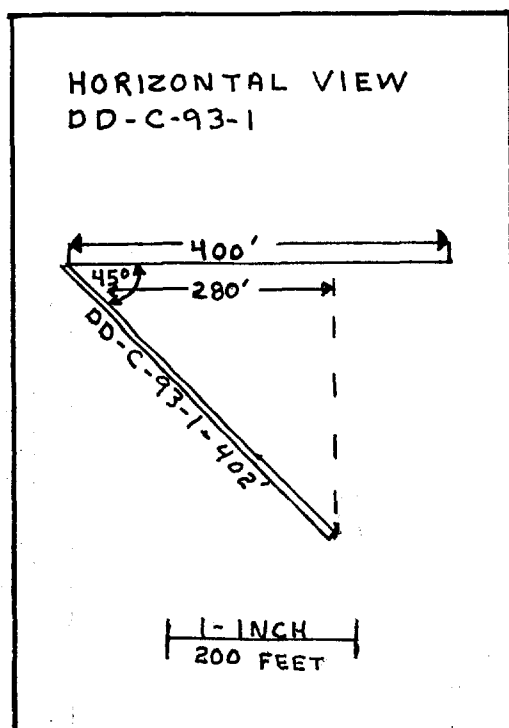
CLAIM # ^{P.} 1182448

GRID LOCATION
1 L-1425E + 2440'S + 20'E
COLLAR

TOTAL FOOTAGE - 402'

DD-CORE SIZE
ABDGM

SWAYZE TWP.



CUCKOO LAKE PROPERTY

SWAYZE TOWNSHIP

ASSAYS



Established 1928

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 Number	Au oz/ton	Au check oz/ton	Ag oz/ton	Co PPM	Cu PPM	Mb PPM	Ni PPM	Pb PPM	Zn PPM
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

Certified by Donna Gardner

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



Established 1928

Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Page 1 of 2

Geochemical Analysis Certificate

3W-1416-RG1

Company: **R CRICHTON**

Date: FEB 02 93

Project:

Copy 1. 65 Tweedsmuir Rd. K.L. P2N 1J3

Attn:

We hereby certify the following Geochemical Analysis of 40 CORE samples submitted JAN-28-93 by .

Sample Number	Au PPB	Au Check PPB
1434	NIL	
1435	24	
1436	10	
1437	14	
1438	14	17
1439	31	
1440	24	
1441	7	
1442	21	
1443	24	
1444	24	
1445	27	
1446	127	
1447	21	
1448	24	
1449	45	38
1450	NIL	
1451	NIL	
1452	58	
1453	21	
1454	34	
1455	NIL	
1456	96	82
1457	7	
1458	27	21
1459	17	
1460	27	
1461	14	
1462	10	
1463	89	

Certified by

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



Established 1928

Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Page 2 of 2

Geochemical Analysis Certificate

3W-1416-RG1

Company: **R CRICHTON**

Date: FEB-02-93

Project:

Copy 1. 65 Tweedsmuir Rd. K.L. P2N 1J3

Attn:

We hereby certify the following Geochemical Analysis of 40 CORE samples submitted JAN-28-93 by .

Sample Number	Au PPB	Au Check PPB
1464	10	
1465	17	
1466	14	
1467	21	
1468	10	
1469	14	
1470	10	
1471	10	17
1472	27	
1473	45	38

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 ONTARIO. RESULTS
WILL BE FORWARDED AS QUICKLY AS POSSIBLE.

PROSPECTING DAY

SWAYZE SULPHIDE SHOWING§

SWAYZE SULPHIDE ZONE

ON PREVIOUS WORK ON CLAIM P. 112006, 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 SECTION OF THE SULPHIDE BURN.

A REPRESENTATIVE SAMPLE WAS TAKEN BY HAMMER AND COLLECTED OVER THE SULPHIDE PIT AREA. THE ASSAYS WERE DISAPPOINTINGLY LOW FOR AU, AG, CO, CU, Mo, Ni, Pb, Zn. RESULTS FOUND IN THE ASSAY SECTION OF THE PROGRAM.

DIP-1"=50

N

1-INCH
50 FEET

Q 1"=50

775 N

SWAYZE TWP.
SULPHIDE TRENCH

INSTRUMENT - VLF-EM-16

STATION USED - CUTLER, MAINE

INPHASE PROFILE 1"=50% 

OUTPHASE PROFILE 1"=50% 

INPHASE VALUES RECORDED - LEFT

OUTPHASE VALUES RECORDED - RIGHT

POSITIVE VALUES PLOTTED - LEFT

NEGATIVE VALUES PLOTTED - RIGHT

CLAIM # 1182006

SAMPLE
#1433 - MASSIVE SULPHIDE

oz/TON

Au .001

Ag .05

PPM

Co-61

Cu-218

Mo-9

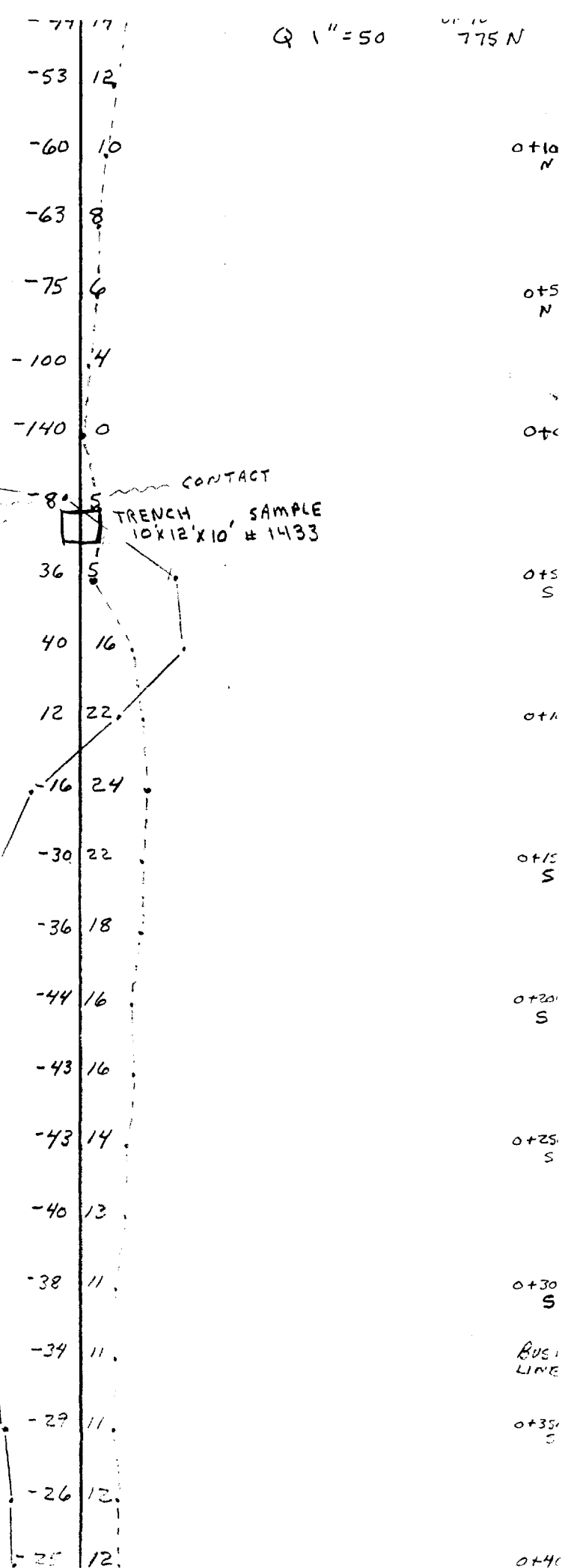
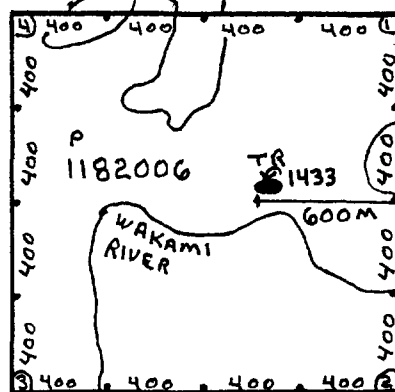
Ni-51

, -27

Zn-330

1-INCH
800 M

LAKES



PHOTOS



SULPHIDE PIT



MASSIVE SULPHIDE



SAMPLING SWAYZE SULPHIDE ZONE



MASSIVE SULPHIDE



**ONTARIO PROSPECTORS ASSISTANCE PROGRAM (OPAP)
FINAL SUBMISSION FORM 1992**

INSTRUCTIONS: Please read the guidebook before completing form

Please type or print

Submit completed form and supporting documentation
by January 31, 1993 to:

Incentives Office (Mineral Development and Rehabilitation Branch)
Ministry of Northern Development & Mines
4th Floor, 159 Cedar St., Sudbury, Ontario P3E 6A5

410155E0048 Op92-814 SWAYZE



**TO BE COMPLETED BY SUCCESSFUL GRANTEES AFTER PROJECT COMPLETION
AND ACCOMPANIED BY WRITTEN REPORTS, MAPS, ETC.**

Applicant Row CRICHTON File Number OP92-814

Proposed project area(s) (Twp. or claim map name, latitude and longitude) Completed?

1. SWAYZE TWP. G-3249 82° 40' Yes No

2. _____ Yes No

Changes to proposed project(s) (if any)

- ADDITIONAL PROSPECTING, HAND STRIPPING, HAND SHOVEL OLD TRENCHES (REPLACE PLUGGER WORK) UNWARRENTED
- 1175' PICKET LINE + EM-16 (25' STATION) | SELECT ROCK SAMPLE ON SULPHIDE ZONE CLAIM - 1122006 RECEIVED
- EXTENSION OF D.D. HOLE M-3 FROM 540' TO 692' CLAIM - 1112773-1112774 LARDER LAKE

List other co-owners of the property with OPAP grants that worked on project

MINING DIVISION

FEB 1 1993

I. WORK PERFORMED BY APPLICANT (Summary of Section IV)

1. Project #1 area/name SWAYZE TWP. CUCKOOLAKE PROJECT

TIME 10:55 am
No. days worked 2
by applicant RP
(that's only you)

Traditional prospecting	No. of samples	<u>4</u>	<u>2</u>
Geological surveys	Scale	_____	_____
Geophysical surveys	Type	<u>VLF + MAG</u> Miles/km <u>APPR. 4.2 miles</u>	<u>6</u>
Geochemical surveys	Type	_____ No. of samples _____	_____
Drilling	Type	<u>Core - ADBGM</u> Ft./m <u>554'</u>	<u>8</u>
Stripping/Trenching	Method	<u>HAND STRIPPING HAND SHOVEL</u>	<u>4</u>
Other	Type	<u>See attached sheet</u>	<u>25</u>
TOTAL			<u>45</u>

900

#1 WORK PERFORMED BY APPLICANT

OTHER:	# DAYS WORKED BY APPLICANT
TYPE	
CORRIDORY TRAIL TO PROPERTY	2 DAYS
MOB DRILL + GEAR	2 DAYS
SET UP DRILL	1 DAY
DE MOB DRILL + GEAR	3 DAYS
MAPS	2 DAYS
SPLIT + SAMPLE CORE	1 DAY
PICKET LINE CUTTING	14 DAYS

I. WORK PERFORMED BY APPLICANT (Continued)

2. Project #2 area/name	<u>SWAYZETWP. -SULPHIDE ZONE</u>		No. days worked by applicant
Traditional prospecting	No. of samples	<u>1</u>	<u>1/2 DAY</u>
Geological surveys	Scale		
Geophysical surveys	Type	<u>VLF EM 16 1/4 mile</u>	<u>1/2 DAY</u>
Geochemical surveys	Type	_____ No. of samples _____	_____
Drilling	Type	_____ Ft./m _____	_____
Stripping/Trenching	Method	_____	_____
Other	Type	_____	_____
		TOTAL	<u>1</u>
TOTAL DAYS (ALL PROJECTS)		A.	<u>46</u>

(Attach additional sheets for additional project areas as required)

II. EXPENDITURES (total of all projects) - Summary of I and II

1. Number of working days by applicant	<u>44</u>	\$	<u>4400 -</u>
(A) x \$100/day			
2. Number of report preparation days by applicant x \$100/day	<u>2</u>	\$	<u>200 -</u>
3. Analyses/Assay costs		\$	<u>614.72</u>
4. Equipment rentals/supplies (specify)			
<u>FUEL DRUM</u>	\$	<u>20.00</u>	
<u>ATV RENTAL</u>	\$	<u>420.00</u>	\$ <u>650^{xx}</u>
<u>MAG + VLF</u>	\$	<u>210.00</u>	
5. Contract services (state type)			
<u>CORE LOGGING</u>	\$	<u>150^{xx}</u>	\$ <u>150^{xx}</u>
.....	\$		
.....	\$		
6. Travel (state method: road, air, etc.)			
.....	\$		
<u>ROAD</u>	\$	<u>772²⁰</u>	\$ <u>772²⁰</u>
.....	\$		
7. Food and Accommodation		\$	<u>1036⁶⁷</u>
8. Other expenses (specify, e.g. helpers)			
<u>OFFICE - 114.78</u>		<u>BUSH SUPPLIES 461.98</u>	
<u>GAS - 536.62</u>		<u>DRILL SUPPLIES 787.17</u>	\$ <u>4705⁶²</u>
<u>HELPERS - 2770 -</u>		<u>MISC. 45.07</u>	
		TOTAL EXPENDITURES	\$ <u>12,519.²¹</u>

Date	Recipient of Payment	Office	Kas	Helps	Good	Rental	Account	Supplies	Photo Supplies	Misc
Sept 2	Metro - groceries				107 ¹⁶					
4	Office Product People - note books	2 ⁷⁰								
4	Quis North Ltd - ^{gas} propane							43 ⁹²		
4	Johnny's Kid - ^{ice} for cooler									2 ³⁵
4	Acce - ^{W/A} - groceries				11 ³⁸					
4	Steve's Grocers - groceries				30 ⁷					
4	McDonald's - ^{meal} - ^{self}				4 ³⁶					
4	McDonald's - ^{meal} - ^{raiser}				4 ³⁶					
4	Northern Auto - paint & parking							50 ²⁷		
4	K&H Home Care - ^{Plum} wood & ^{pieces}							40 ⁰⁰		
4	Home Hardware - ^{wood} ^{stove} & ^{pipe}							115 ⁸¹		
4	Canadian Tire - ^{chain} ^{saw} & ^{pipe}							89 ⁰²		
4	W.R. Sherman - ^{propane}									11 ⁷⁷
Oct 10	Steve's Grocers - groceries				337 ¹³					
10	Canadian Tire - ^{mixed} gas		30 ⁻							
23	Carl's Office Supply - ^{rubber} pencil	10 ⁴⁶								
Nov 2	Office Kid People - ^{photo} copiers	39								
19	Carl's Office Supply - ^{paper} , pen	15 ⁰⁹								31 ⁻
14	McMorgan - ^{skate} oil, bulb									31 ⁻
Jan 2	Metro - groceries				321 ⁻					
2	Canadian Tire - ^{oil} ^{oil} ^{oil} ^{oil}							94 ⁶⁵		
2	Home Hardware - ^{paint}							27 ⁵⁶		
2	W.R. Sherman - ^{diesel} gas, ^{diesel}	15 ³¹								
2	Canadian Tire - ^{diesel} gas	67 ⁰⁰								
4	Metro - groceries				75 ⁰¹					
4	A&P - groceries				39 ³⁷					

	Office	Gas	Helps	Food	Rental	Accoup	Back supplies	Kelli supplies	Contract	Misc.
Jan 16	Feb 15A - groceries					9038				
18	Canadian Tire - diesel gas					332.87				
19	Esso - diesel gas + propane					54.75				
30	Car's Office Supply - paper + pens	36.30								
31	World of Photo - developing	32.77								
20	R. Thompson - 15 gal drum: fuel								30	
29	Super Food Supply - photo copies	7.71								
30	Car's Office Supply - drafting pen	39.44								
28	R. Here Hardware - fuel pipe									17.43
31	Larry Sato - wages					3050				
28	M. Massen - core logging									150
Oct 16	S. Olsen - ATV Rental									420
16	S. Olsen - wages					400				
Jan	Vaughn Renaud - mag + VLF									310
29	Sparta Mining									769.74
Sept 16	Swas Hat - accoup									111.82
Jan 29	Swas Hat - accoup									503.90
	Jacob Auckton - helper					330				

11478 52662 2770 102667 650 64472 46198 78717 150 4507

IV. DAILY REPORTS (Summarize work activity in Section I)

Day	Project Area	Date	Work Performed
1	CUCKOO LAKE	SEPT-5-92	CONDUCT TRAIL TO PROJECT
2		SEPT-6-92	CONDUCT TRAIL TO PROJECT
3		SEPT-7-92	LOCATE L-225E+3025E+3025E+3025E
4		SEPT-8-92	LOC 1425E TO 3025E + C-RAIN
5		SEPT-9-92	TURPINE LINES - CUT 3025E-2225E
6		SEPT-10-92	TURPINE LINES - CUT 2225E-1425E
7		SEPT-11-92	CUT 2225E-1425E-1425E-1025E
8		SEPT-12-92	CUT 2225E-1425E-2225E-1025E
9		SEPT-13-92	CUT 1825E-1425E-1025E-1425E-1025E
10		SEPT-14-92	LOC. 4-25E BOUNDARY 1182447 CUT 625E+225E
11		SEPT-15-92	CUT 4-25E - C-RAIN BOUNDARY TO LAKE
12		SEPT-16-92	LOC. 5-25E BOUNDARY TO LAKE
13		SEPT-17-92	CUT 4-1425E - 1425E C-RAIN TO LAKE
14	SURVEY SURROUNDING ZONE	SEPT-18-92	PREPARED MAP-16
15	CUCKOO LAKE	SEPT-19-92	PREPARED MAP-16
16		SEPT-20-92	CHECK SITE VIB. FAST - 1000 P
17		SEPT-21-92	MEET WITHS (LASE MEET)
18		OCT-12-92	L-2225E+3025E+3025E+3025E
19		OCT-13-92	L-2225E+3025E+3025E+3025E
20		OCT-14-92	L-2225E+3025E+3025E+3025E
21		OCT-15-92	L-2225E+3025E+3025E+3025E
22		JAN-5-93	FILE - C-RAIN LAKE 1425E - 3025E
23		JAN-6-93	FILE - C-RAIN LAKE 2225E - 1425E
24		JAN-7-93	FILE - C-RAIN LAKE 2225E - 1425E
25		JAN-8-93	FILE
26		JAN-9-93	FILE
27		JAN-10-93	VLF CUTLER
28		JAN-11-93	VLF - PLANET
29		JAN-12-93	VLF CUTLER
30		JAN-13-93	VLF PLANET
31		JAN-14-93	DEET - VLF METS
32		JAN-15-93	DEET
33		JAN-16-93	DEET
34		JAN-17-93	SETUP
35		JAN-20-93	FILE
36		JAN-21-93	FILE
37		JAN-22-93	FILE
38		JAN-23-93	FILE
39		JAN-24-93	FILE
40		JAN-25-93	FILE
41		JAN-26-93	FILE

Attach additional sheets as required

IV. DAILY REPORTS (Summarize work activity in Section I)

Day	Project Area	Date	Work Performed
1	<u>CUCKOO LAKE</u>	<u>JAN-27-93</u>	<u>DRILL</u>
2		<u>JAN-28-93</u>	<u>DDCORE To KL. LOG & SPLIT + SAMPLE</u>
3		<u>JAN-29-93</u>	<u>DEMOB MAPS</u>
4		<u>JAN-30-93</u>	<u>DEMOB MAPS REPORT</u>
5		<u>JAN-31-93</u>	<u>DEMOB MAPS REPORT</u>
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Attach additional sheets as required.

V. SIGNIFICANT RESULTS please complete

Project Area

New Findings
and/or Anomalies

ISSUES DEALING
WILL BE FORWARDED
TO THE COMPETENT SURVEYOR FOR ANALYSIS

VI. CLAIMS STAKED DURING AFTER PROSPECTING ACTIVITY please complete

Project Area

Claim Numbers

Number of Claim Units

GRANITE TWP.	A. 0415, B. 050, C. 02	34

VII. OPTION AGREEMENTS RESULTING FROM OPAP PROJECT please complete

Options

Property Claims

Dollar Value of
Work Commitment

The Ministry of Northern Development and Mines may verify all statements related to and made herein this application.

- I am the person named in the Application for Grant under the Ontario Prospectors Assistance Program.
- I am ordinarily a resident of Canada.
- I have complied with all the requirements of the said program.
- I understand that it is an offence under the Ontario Mineral Exploration Act, 1989, to make a false or misleading statement and that all statements and all other information submitted in support of the said application are true and correct.
- I was not employed by the Ministry while in receipt of the OPAP grant.
- I am not the spouse, child, sibling or parent of a Ministry employee.
- I am aware that any other Provincial or Federal Government financial assistance received for said application will be deducted from the amount of incurred "Total Eligible Expenses".

It is an Offence under subsection 5(1) A of the Ontario Mineral Exploration Act, 1989 to knowingly furnish false or misleading information.

Personal information of the type gathered under the authority of the Ontario Mineral Exploration Act, 1989 sections 2, 3 and 4 and the Ontario Prospectors Assistance Program Regulation sections 4, 5 and 6. The financial and technical information may be used for the purposes of determining the eligibility of the applicant.

Have a program designed or financed, assisted and the amount of such assistance. Other information, such as technical information about the various projects, may be used for the purpose of determining the eligibility of the applicant. This information may be disclosed for those purposes and consent to its disclosure by the

applicant. Questions about this collection should be directed to Supervisor, Information Office, Mineral Development and Research Division, Ministry of Northern Development and Mines, 4th Floor, 155 Cedar Street, Sudbury, Ontario P1B 6A5. Tel: (416) 495-3333.

Signature of Applicant: Ken Tuckler Date: Jan - 3, - 92

Name print: Ken Tuckler

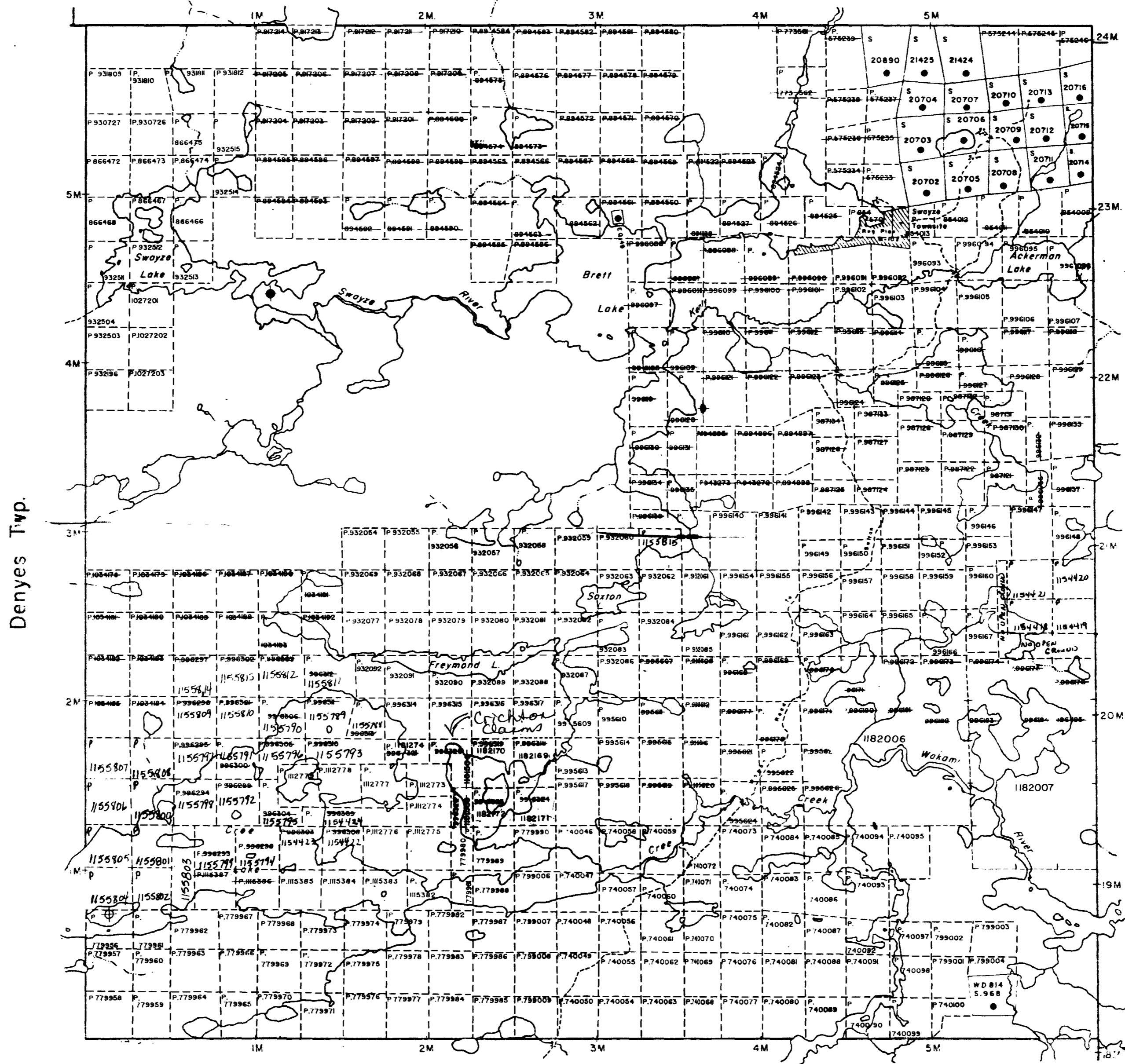
REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

Rollo Twp.



Denyes Twp.

Dore Twp.

Cunningham Twp.

LEGEND

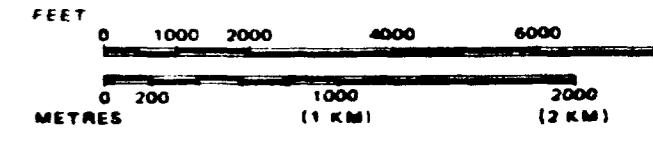
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS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

DISPOSITION OF CROWN LAND

TYPE OF DOCUMENT	SYM
PATENT, SURFACE & MINING RIGHTS
" SURFACE RIGHTS ONLY
" MINING RIGHTS ONLY
LEASE, SURFACE & MINING RIGHTS
" SURFACE RIGHTS ONLY
" MINING RIGHTS ONLY
LICENCE OF OCCUPATION
ORDER-IN-COUNCIL
RESERVATION
CANCELLED
SAND & GRAVEL
• REMOTE TOURIST CAMPS

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO 1913, VESTED IN ORIGINAL PATENTEE BY THE P. LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUB

SCALE: 1 INCH = 40 CHAINS



CP92-214

TOWNSHIP
SWAYZE
 M.N.R. ADMINISTRATIVE DISTRICT
 CHAPLEAU
 MINING DIVISION
 PORCUPINE
 LAND TITLES / REGISTRY DIVISION
 SUDBURY



Date MARCH, 1985 Number
G-324

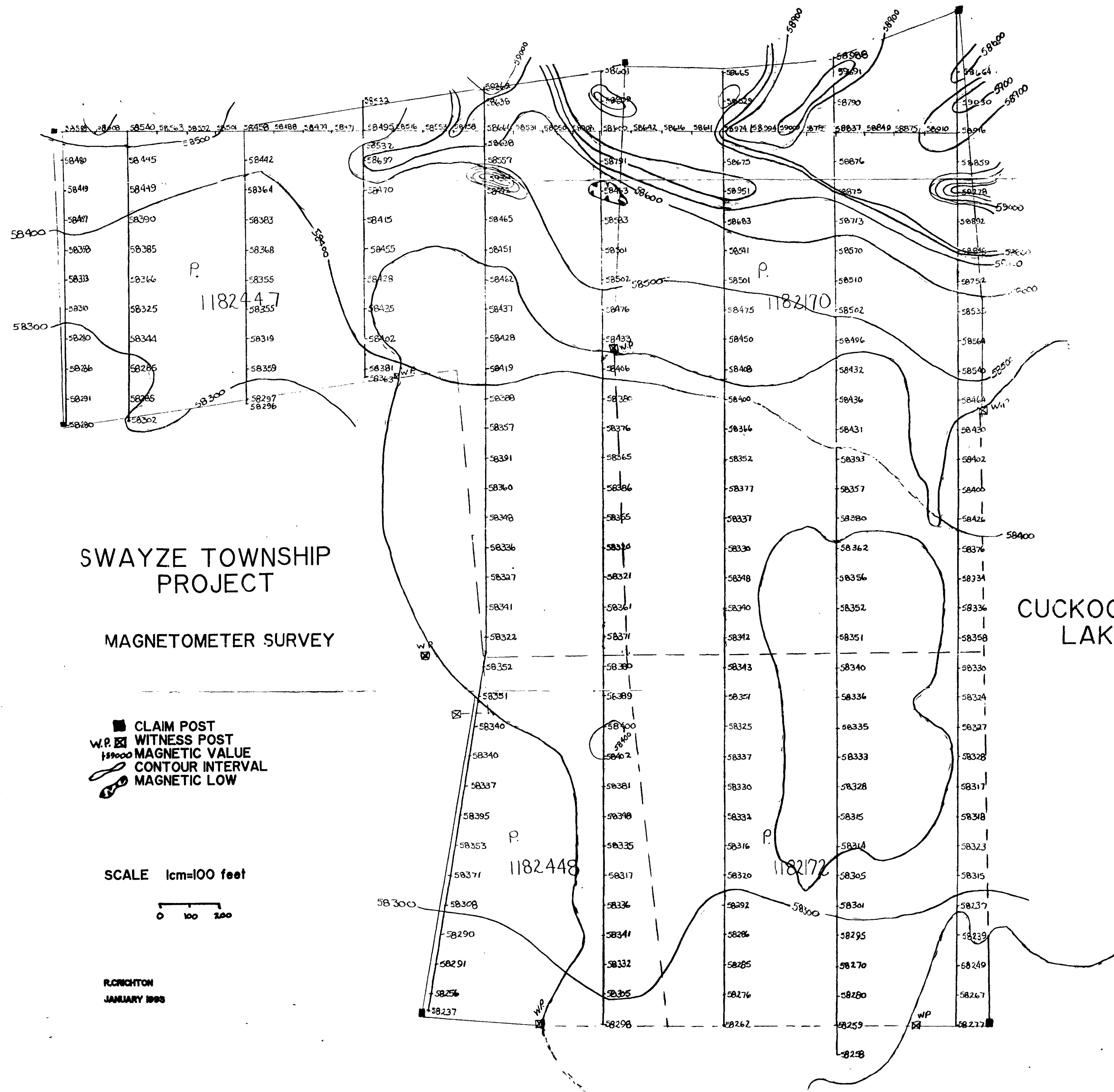
ACTIVATED APR. 19/90 D.C.

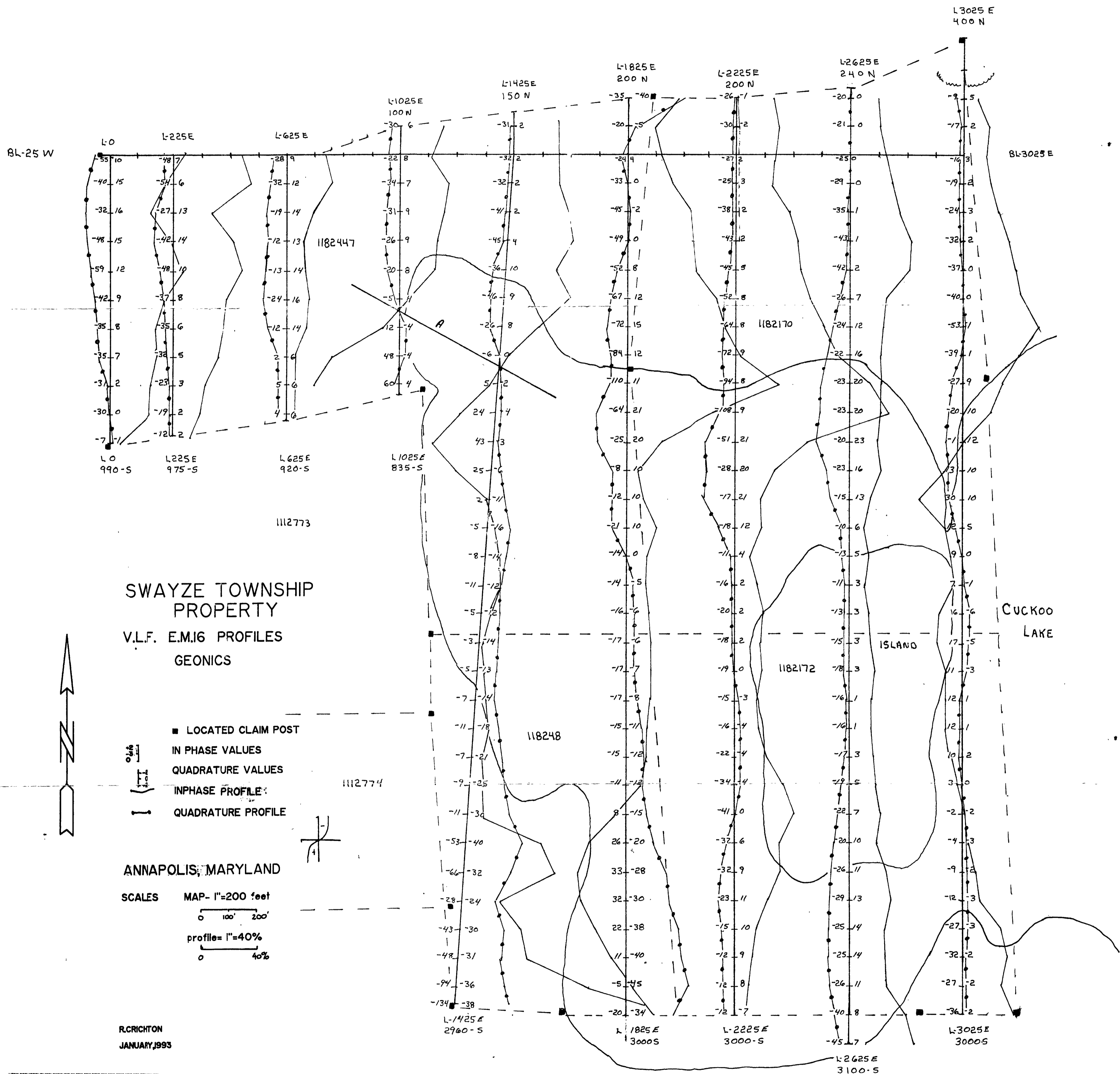


THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON

4+00N
 3+00N
 2+00N
 1+00N
 Baseline 0
 1+00S
 2+00S
 3+00S
 4+00S
 5+00S
 6+00S
 7+00S
 8+00S
 9+00S
 10+00S
 11+00S
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 26+00S
 27+00S
 28+00S
 29+00S
 30+00S

Line 0
 Line 14125E
 Line 1425E
 Line 14125E
 Line 1425E
 Line 18125E
 Line 22125E
 Line 24125E
 Line 30125E





410155E0048 OP92-814 SWAYZE

8L25W

8L3025E

SWAYZE TOWNSHIP PROPERTY V.L.F. E.M.16 PROFILES GEONICS

- LOCATED CLAIM POST
- [12] INPHASE VALUES
- [2] QUADRATURE VALUES
- INPHASE PROFILES
- QUADRATURE PROFILES

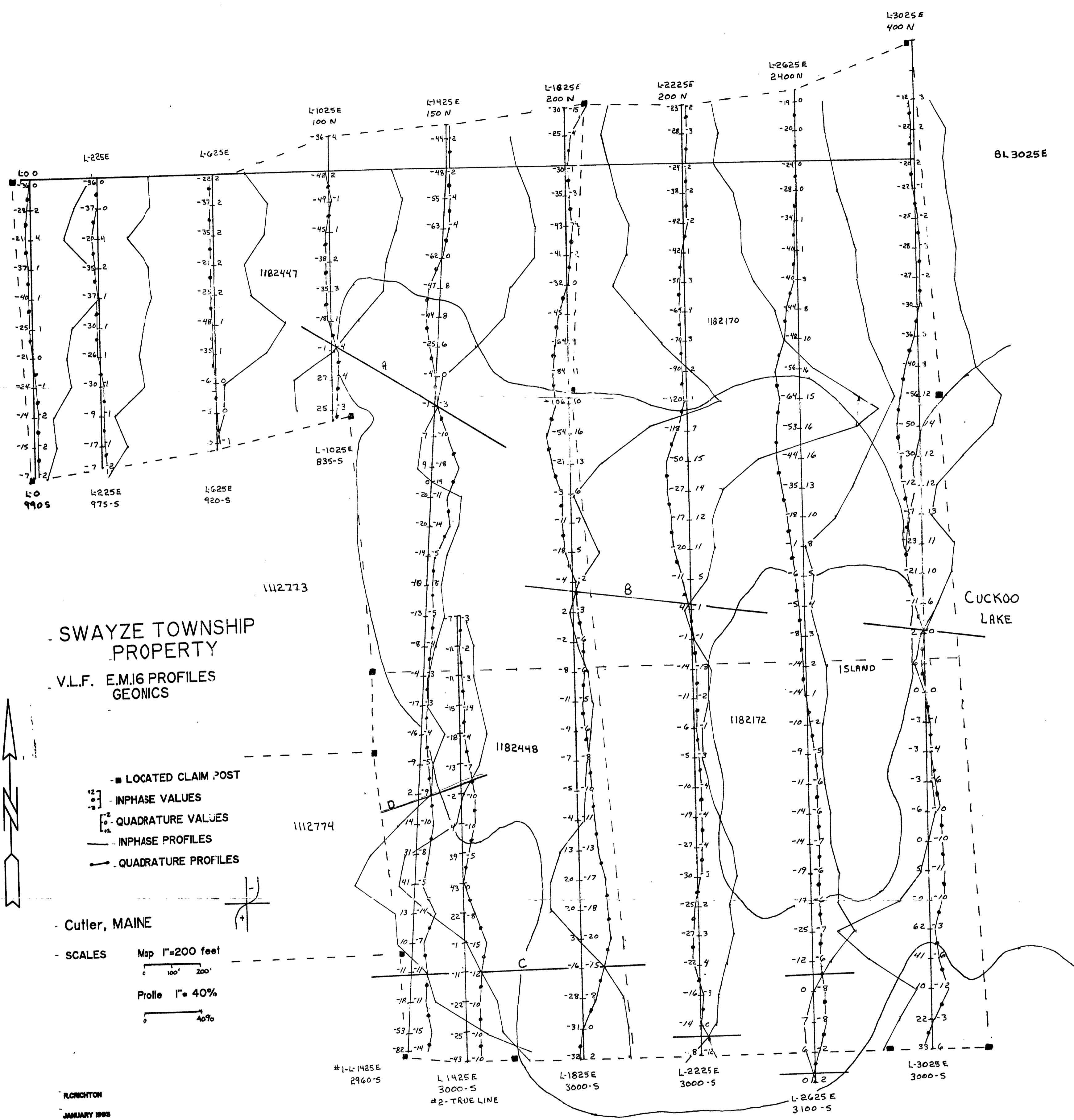
Cutler, MAINE

SCALES

Map 1"=200 feet
0 100' 200'

Profile 1"=40%
0 40%

R. CRICHTON
JANUARY 1995





1/4 INCH
200 FEET

CUCKOO LAKE PROPERTY

- BASE LINE 3050'
- PICKET LINES 4-1 MILES
- TRENCHES + PITS ASSAY IN OZ./TON
- SAMPLE NUMBER #1429, 30, 31, 32
- DD - DIAMOND DRILL HOLES
- CLAIM POSTS
- CLAIM LINE
- - - TRACTOR ROAD

