

MAGNETOMETER SURVEY
REPORT FOR
GOLDHURST RESOURSES INC.
LITTLE ESTHER PROPERTY
CONNAUGHT TOWNSHIP, ONTARIO.

RECEIVED

JAN 2 1 1982

MINING LANDS SECTION

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F.T.Archibald, B.Sc.Geologist January 15, 1982.

qual on file: 2.2715

SUMMARY

The property consists of twelve contiguous non-patented mining claims in Connaught Township which is situated in the Larder Lake Mining District of Ontario. The claims are numbered L553672 to L553683 inclusive.

The purpose of the survey was to delineate any zone of mineralization and to attempt to delineate geological structure underlying the property.

Over 80% of the property is covered by overburden. Outcroppings are scarce with exception of that area which is in close proximity of the shore of Little Esther Lake. A zone of chalcopyrite mineralization has been traced by stripping along the southwest shore of Little Esther Lake. A strong electromagnetic V.L.F. anomaly has been delineated in close proximity and paralling this zone of mineralization.

Some 9.0 miles of line was traversed during the survey. Readings were taken on lines spaced at 400 feet apart and at intervals of 50 to 100 feet along the lines.

There is a weak to moderately weak magnetic signature overlying the property. Two anomalous trends are found to exist on the property. Both of these follow close to the contacts between a diorite intrusive and acid to basic metavolcanic units. One trend corresponds close to a mineralized breccia shear or fault zone which lies along the intrusive-metavolcanic contact.

PROPERTY AND LOCATION

The property consists of twelve unpatented mining claims in the Township of Connaught; District of Larder Lake, Ontario. The claims are numbered: L553672 to L553683 inclusive.

The property is located approximately 75 miles northwest of the town of Sudbury, Ontario, or approximately 5 miles north of the town of Shiningtree, Ontario.

Access is by highway #560 to Shiningtree and then by snowmobile in the winter or by float plane to Little Esther Lake. This highway can be reached by Highway # 144 from Sudbury or by Highway #11 at the New Liskeard or Kirkland Lake turnoffs.

TOPOGRAPHY

The area encompassed by the claims is generally slightly undulating. There are small knolls or hills rising to fifty feet above the lake level in the north and east section, and low lying swamp sections in the south and west sections of the property. The knolls are elongated in a northwest to southeast direction.

Up to 35% of the property is covered by swamp or low lying areas.

The timber consists primarily of mature poplar with areas of birch, spruce and tag alder.

GEOLOGY

The property is underlain by basic flows of Keewatin age and smaller areas of younger Cobalt sediments. Acid volcanic flows (rhyolites) can be seen on the west side of Little Esther Lake. Quartz diorite intrusives are also evident on both the west and south east sides of Little Esther Lake.

Fault breccia striking north 60° west and dipping 62° to the north can be found along the west arm of Little Esther Lake and dipping underneath the lake.

ECONOMIC GEOLOGY

An east-west trending zone of fault breccia with concentrations of pyrite and chalcopyrite can be followed along the west arm of Little Esther Lake. Samples from this zone have returned assays with up to 2.34% copper mineralization.

Work on this zone has been limited because of the swamp overburden to the west and the lake overlying it to the east.

SPECIFICS OF SURVEY

The survey was completed with the use of the Exploranium-Geometrics 'Unimag' proton magnetometer. This digital readout instrument has a sensitivity of \pm 10 gammas.

Station readings were taken at intervals of 100 feet on lines at 400 feet apart. When abnormally high or low readings were encountered, or in areas of high magnetic fluctuation, readings were taken at 50 foot interval stations. Some 9.0 miles of line was traversed during the survey.

The accuracy of the readings was increased by averaging two or three readings, especially in areas of high magnetic fluctuation. In areas where fluctuations could not be nulled, stations were moved a few feet until a constant reading was obtained. The range selector was changed in areas of high fluctuation until the readings decreased to a constant level.

The 'world gamma range' setting on the instrument was brought down to a scale relative to the airborne magnetics of the area when plotting the final resultant readings. Results, after plotting corrections for diurnal drift, are plotted at 500 gamma intervals.

Base plans are plotted at a scale of 1 inch to 320 feet.

Actal field work was done from January 6 to January 15, 1982.

RESULTS OF SURVEY

There is a very weak magnetic signature overlying the claim group. Two weak magnetic trends were encountered during the survey. These magnetic trends parallel the regional geological strike, in a northwest-southeast direction.

The strongest magnetic response found was 2740 gammas above a normalized background. These moderately weak responses are narrow and very discontinuous.

Anomalous trend A is a moderately weak magnetic signature which runs the length of the northern section of the property, in an east-west direction. The highest magnetic response lies between lines 32 West and 40 West.

Anomalous trend B is a weak to moderately weak magnetic signature which runs between lines 0+0 and 36 West. This discontinuous anomaly trends in a northwest to southeast direction across the southern-middle portion of the property.

CONCLUSIONS

Two east-west to northwest-southeast trends, Anomalies A and B, have weak to moderately weak responses and show up as discontinuous conductive zones.

Anomaly A parallels the contact between the acid metavolcanic group (rhyolites) to the north and a diorite intrusive unit to the south.

This magnetic trend parallels a strong electromagnetic anomaly and parallels a brecciated shear zone or fault zone which travels through the west arm of Little Esther Lake.

Anomaly B parallels the contact of the weakly magnetic diorite intrusive unit. This trend probably follows the southern contact of the intrusive unit.

A flat magnetic signature in the southwest section of the property is underlain by a basic metavolcanic unit.

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January 15, 1982.

F.T.Archibald, B.Sc.Geologist

Ministryof Natural Resources Report of Work

(Geophysical, Geological, Geochemical and Expenditures)



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Township or Area

Survey Dates (linecutting to office)

Connaught Twsp.

Prospector's Licence No. T-970

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

lame and Postal Address of Person Certifying

ertification Verifying Report of Work

F.T. Archibald

Jan.15,1982

362 (81/2)

702-100 Adelaide St. W. Toronto, Ont

Date Certified Jan. 15, 1982 Certified by (Signature) It's Onekalista February 9, 1982

2.4498

Office of the Mining Recorder Ministry of Natural Resources 4 Government Road East P.O. Box 984 Kirkland Lake, Ontario P2N 1A2

Dear Sir:

We have received reports and maps for a Geophysical (Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims L.553672 et al in the Township of Connaught.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1380

J. Skura/bk

cc: F.T. Archibald Toronto, Ontario

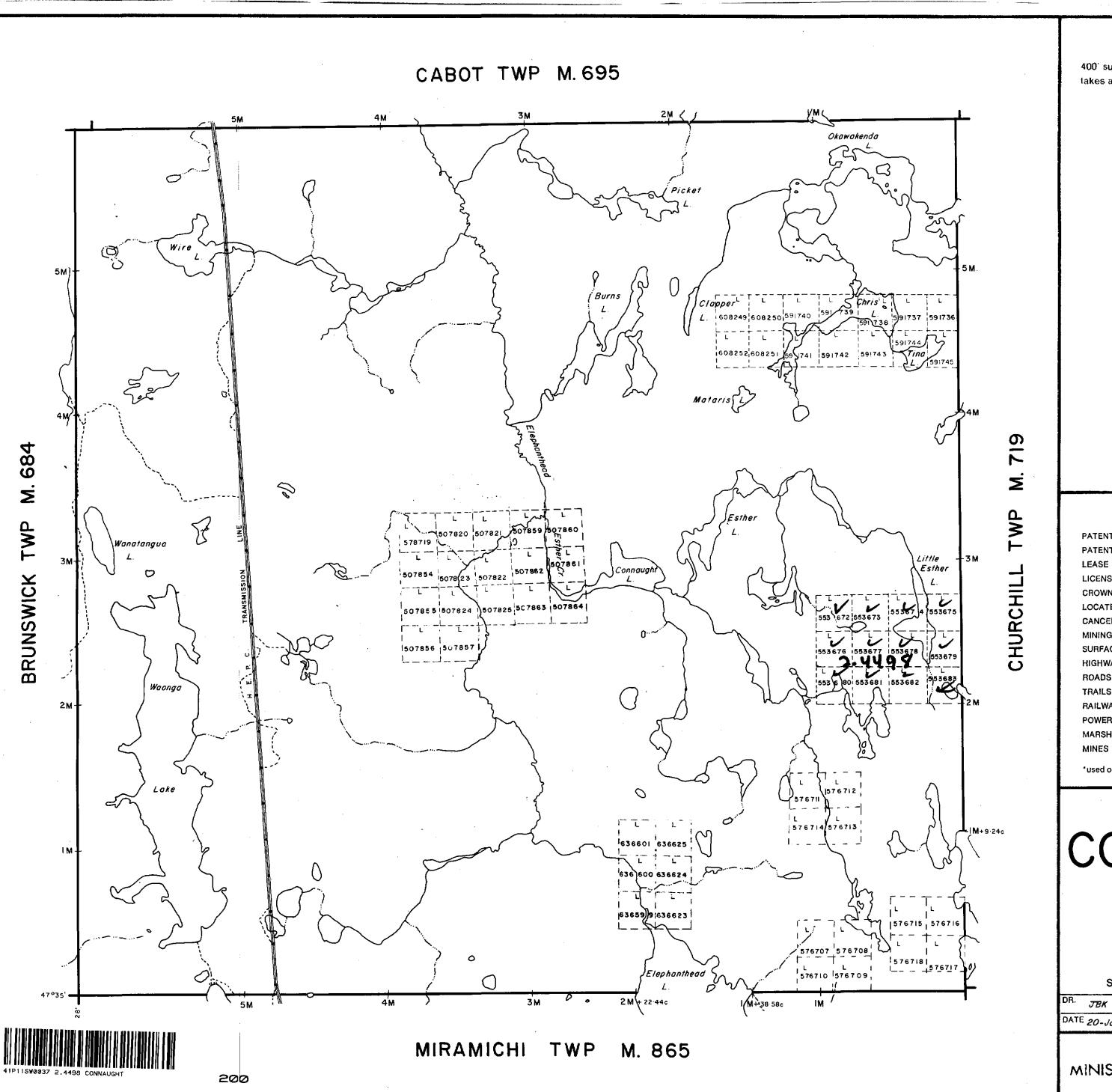


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Geotechnical Report Approval

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To: Mining Lar	nds Section, Room 6462, Whitney Block.	(Tel: 5-1380)		



NOTES

400' surface rights reservation along the shores of all takes and rivers.

DATE OF ISSUE

Ministry of Natural Resources TORONTO

LEGEND

PATENTED LAND	(P) or ● *
PATENTED FOR SURFACE RIGHTS ONLY	⊖ *
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CROWN LAND SALES	C.S.
LOCATED LAND	Loc.
CANCELLED	C.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
HIGHWAY & ROUTE NO.	
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MARSH OR MUSKEG	\mathcal{C}
MINES	<u>**</u>

fused only with summer resort locations or when space is limited

TOWNSHIP OF

CONNAUGHT

DISTRICT OF

SUDBURY

LARDER LAKE

MINING DIVISION

SCALE: 1 INCH - 40 CHAINS (1/2 MILE)

DATE 20-Jan-'71 PLAN NO.

M. 730

ONTARIO

MINISTRY OF NATURAL RESOURCES

SUNTEYS AND MAPPING BRANCH

