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GEOLOGICAL REPORT

ON

GRID C-14

CLIFFORD TOWNSHIP, ONTARIO
LARDER LAKE MINING DIVISION
DISTRICT OF TIMISKAMING

RECEIVED

NOV 25 1987

MINING LANDS SECTION

Latitude: 48° 17′ N Longitude: 79° 80′ W

By: John Kovala

Latitude: 48° 17′ N





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- 1. Location Map
- 2. Location Map

ENCLOSURES

1. Geology Map

INTRODUCTION AND SUMMARY OF RESULTS

This report describes the results of a geological survey conducted over a continuous block of 18 claims located in Clifford Twp. by the author.

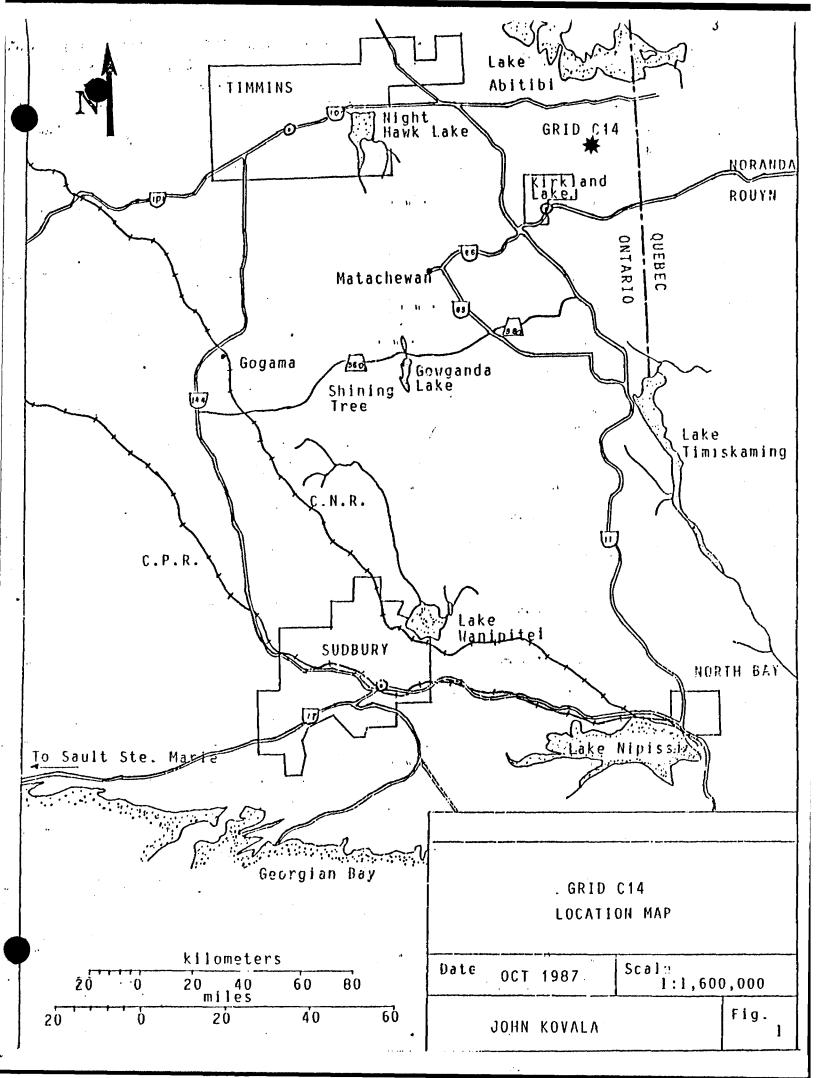
Geological mapping at a scale of 1:5,000 was conducted over a total of 26.7 kilometers of north-south grid lines spaced at 125 m.

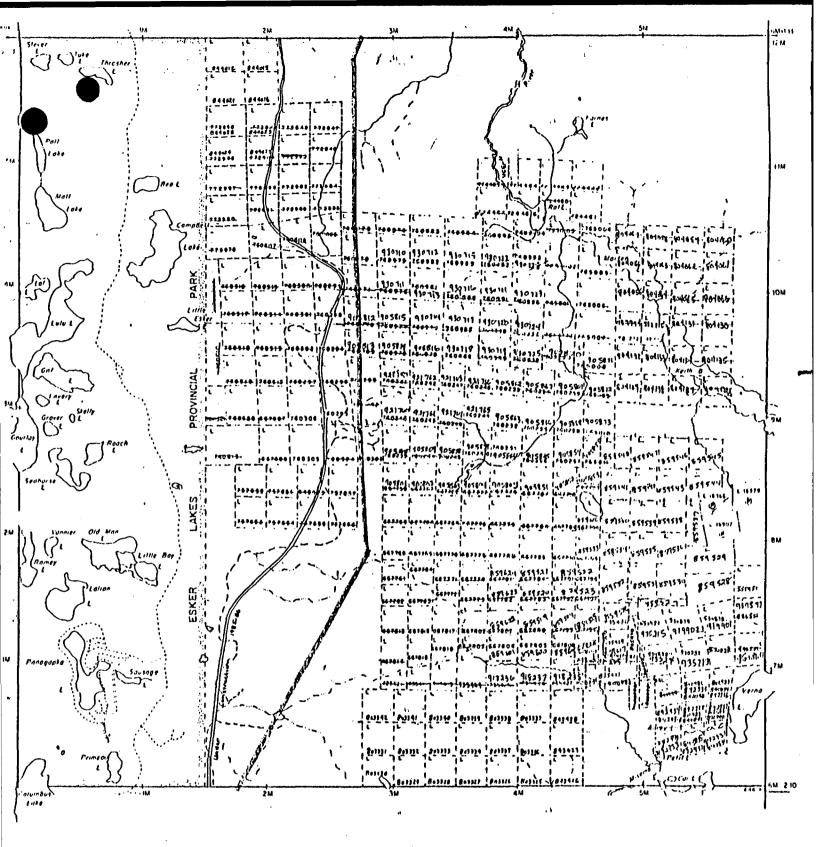
Based on the geological mapping no interesting veining sulphide mineralization or alteration has been located. As a result no geological targets with any economic interest have been outlined.

LOCATION AND ACCESS

The property is located 20 km northeast of Kirkland Lake, Ontario on the southern boundary of Clifford Twp., N.T.S. 32 D/5, latitude 48° 17′ N, longitude 79° 80′ W. Figures 1 and 2 illustrate the properties location at scales of 1:1,600,000 and 1:500,000 respectively.

Access to the property is gained by following a sandy bush road that turns off of the Esker Lakes Park Road. This sand road is followed for a distance of approximately 5 kilometers to the southern boundary of the property.





* TOWNSHIP OF

CLIFFORD

DISTRICT OF COCHRANE.

LARDER LAKE

GRID LOCATION MAP

C 14

PROPERTY DESCRIPTION

Property C-14 covers 18 continuous unpatented mining claims located in Clifford Township, Larder Lake Mining District of Timiskaming. The 18 claims are listed below:

Claim Numbers:

L803325, L803326, L803327, L803328, L803329, L803330, L803331, L803332, L803333, L803334, L803335, L803336, L803337, L803338, L803339, L803340, L803341, L803342

Total = 18 claims

TOPOGRAPHY AND VEGETATION

The property is covered by pleistocene to recent deposits of basal till clay aeolian sand dunes and swamp through which about 5% bedrock is exposed.

Most of the property is covered by elongate sand dunes separated by low lying flat swampy ground. The sand dunes form elongate northwest to southeast ridges 2 to 10 m high with steep north dipping slopes.

Till deposits and clay are exposed on the east part of the property. They are found generally on higher ground and near areas of outcrop.

Vegetation consists mainly of pine, spruce and small isolated clusters of birch and poplar. Tag alders are abundant in wet swampy areas.

Selected areas on the western quarter of the property have been logged. Logging activities have been restricted to the elongate sand ridges.

PREVIOUS WORK

The only evidence of previous work is in the form of blasted pits restricted to the central eastern portion of the property in zones of pyrite mineralization.

Assessment work files indicate that Canadex Mining Corporation has carried out a magnetic and VLF-EM survey and a portion of the survey covers the six eastern claims.

Mining Corporation of Canada has drilled 5 holes in the area.

Assessment work files have no exact locations for the drill holes but to date none have been located on the 18 claim group mapped.

SURVEY PROCEDURE

Geological mapping was conducted over the entire grid at a scale of 1 to 5,000 along north-south metric grid lines spaced 125 m. apart and with stations located at 25 m intervals.

RESULTS OF GEOLOGICAL MAPPING

Regional Geology

Regionally the property is located in the central - western part of the Blake River Group volcanics, a synclinorium that opens to the east. The rocks of the Blake River Group consist mainly of calc alkaline basalt andesite minor Mg-rich tholeitic lava, calc allkalic dacite, rhyolite and tuff (OGS Map 2484).

In the central portion of the synclinorium occurs a domal anticline intruded by granodiorite. The map area is located 2 miles south of the axis of the domal anticline over a complimentary W.N.W. syncline. The syncline is centred by felsic volcanics and flanked to the N.N.E. and S.S.W. by intermediate volcanics. A large quartz gabbro intrusive is located along the southeastern boundary of the property.

Property Geology

Map 1 located at the back of this report presents the results of the geological mapping survey. Outcrop exposure in the map area is approximately 5%.

Felsic volcanics are found centrally on the property. These rocks occupy a 600 to 800 m wide area striking W.N.W. It has been suggested L.S. Jensen (1975) that felsic volcanics occupy the centre of a syncline with a W.N.W. axis. No top directions have been found

to confirm this.

In this report rhyodacite and dacite have been categorized as felsic volcanics. The felsic volcanics have been subdivided into; massive, amgydaloidal, feldspar porphyry, quartz porphyry, tuff, luppilli tuff, tuff breccia and agglomerate.

In the area between L17+50 to L21+25E and 4+00N to 6+00N the rocks are dominantly massive felsic volcanics and felsic tuff. They are fine grained light yellowish to green and weather to white. 1 to 2% pyrite occurs disseminated, often weathering out causing rusty streaks. In places the rock is intensely fractured in 3 directions causing it to break up into small blocks.

Between L12+50E to L17+50E and 8+00N to 12+00N occur intercalated felsic tuff, tuff breccia, agglomerate and massive feldspar porphyry and amygdaloidal to massive non-porphyritic non-amygdaloidal felsic volcanics.

Flows varied in thickness from 2 to 30 m. Contacts, lappilli beds in felsic tuff and elongate direction of fragments in agglomerate all strike between 125° and 135°. Tuff breccia and agglomerate occur intercalated and contain grey to grey-green porphyritic fragments 5 to 25 cm in diameter in a grey prophyritic matrix. Feldspar phenocrysts in the matrix and fragments are 1 to 3mm in diameter. Minor yellow sericite occurs in the matrix. A subparallel primary alignment of fragments at 125° to 135° was noted.

Felsic tuff occurs as thin < 5m beds. The rock is often finely bedded cherty and yellowish to pale green in colour. At L16+00/9+12N rusty bands 1 to 4 cm wide containing pyrite and 1 to 3 mm feldspars strike at 135°.

Massive, porphyritic and amygdaloidal volcanics tend to be darker green in colour and weather to a green white.

Intermediate volcanics andesite and dacite can be found on the N.N.E. and S.S.W. flanks of the rhyolite. To the S.S.W. no flow textures were noted. The rocks are massive aphanitic medium grey green in colour often containing feldspar phenocrysts and/or amygduals. Large quartz carbonate masses from 2 to 30 cm in diameter were noted at L0+00/5+50N. A feldspar porphyry dyke 5 m wide at L7+50E/0+775N has a strike of 85°.

N.N.E. of the felsic volcanics occurs a variety of rock types stratigraphically from south to north, tuff, intermediate volcanics, gabbro and syenite intrusives, felsic volcanics and basalt. A strike of 105° was obtained from tuffs located at the southern end of the cluster of outcrops.

A large stock of quartz gabbro occupies the area from L12+50E to 23+50E and south of 3+50N. The rock is medium to dark green massive and medium grained. There is very little textural variation across the body. No contacts with the volcanics were observed.

Economic Geology

Minor disseminated pyrite was observed in the area of L21+25/5+00 to 6+00N in felsic volcanic rocks. Trace amounts of pyrite were observed with thin quartz carbonate veins. Across the property there is a lack of any interesting veining sulphide mineralization and alteration. As a result of the mapping no geological targets of any economic interest have been outlined.

CONCLUSIONS

Based on the geological mapping, no geological targets of any economic potential have been located. The cause of VLF-EM conductors has not been determined based on the geological mapping. Some VLF-EM anomalies may be due to topographic effects.

It is recommended that an IP survey be conducted over selected VLF anomalies possibly followed by drilling if any IP targets of interest are located.

Am Koude



VLF EM-16 SURVEY REPORT

ON

GRID C-14

CLIFFORD TWP., ONTARIO
LARDER LAKE MINING DIVISION
DISTRICT OF TIMISKAMING

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ENCLOSURES

- 1. VLF-EM Survey Values
- 2. VLF-EM Survey Filtered Values and Contours

INTRODUCTION

A VLF-EM 16 was carried out over a continuous group of 18 unpatented mining claims located on the southern boundary of Clifford Township, about 20 kilometers northeast of Kirkland Lake. In April and May, 1987 the survey was conducted over a total of 26.7 kilometers of metric north-south grid lines.

The Cutler, Maine transmitter (24.0 kHz) NAA was read at 25 meter intervals along the north-south grid lines with a Geonics EM-16 VLF unit.

PROPERTY

The survey area covers 18 continuous unpatented mining claims located in Clifford Township, Larder Lake Mining Division, District of Timiskaming. The 18 claims are listed below:

Claim Numbers:

L803325, L803326, L803327, L803328, L803329, L803330, L803331, L803332, L803333, L803334, L803335, L803336, L803337, L803338, L803339, L803340, L803341, L803342

Total = 18 claims

LOCATION AND ACCESS

The property surveyed is located 20 kilometers northeast of Kirkland Lake in the south central part of Clifford Township at longitude 79° 80° W and Latitude 48° 17° N (N.T.S. 32-D-5). Figure 1 and Figure 2 illustrate the properties location at scales of 1:1,600,000 and 1:500,000 respectively.

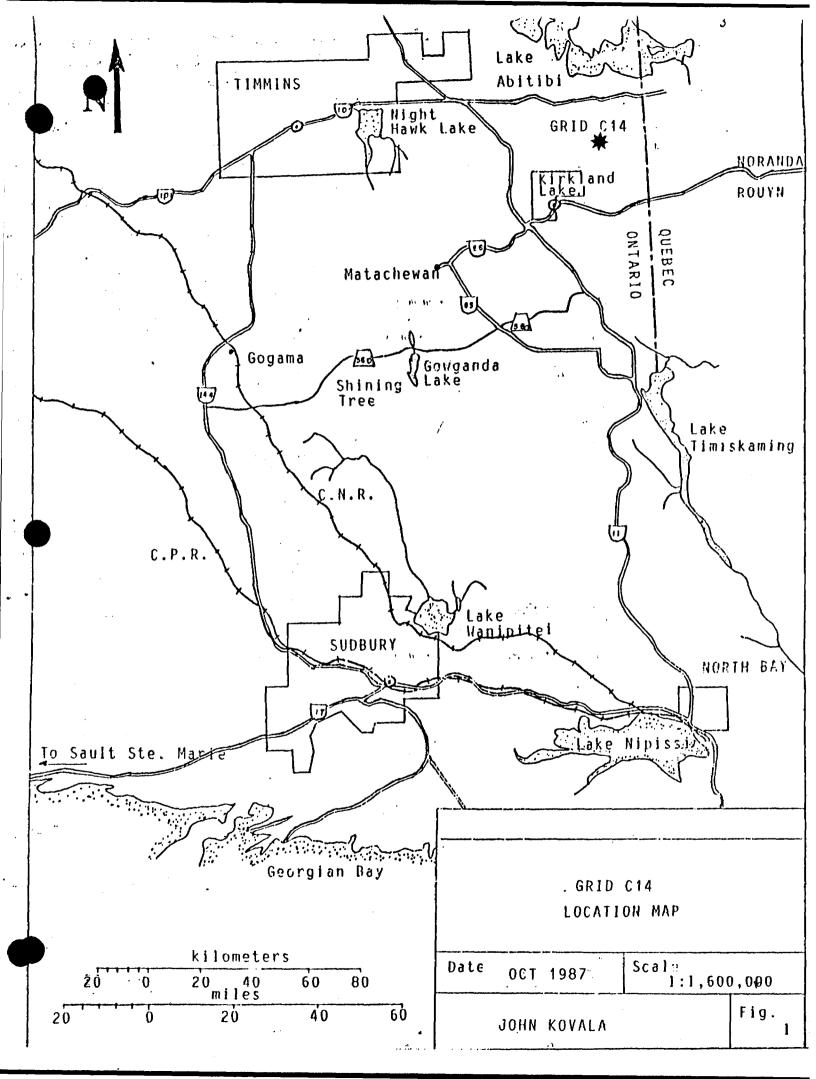
Access to the property is gained by following a sandy bush that turns east off of the Esker Lakes Park. This sand road is followed for a distance of approximately 5 kilometers.

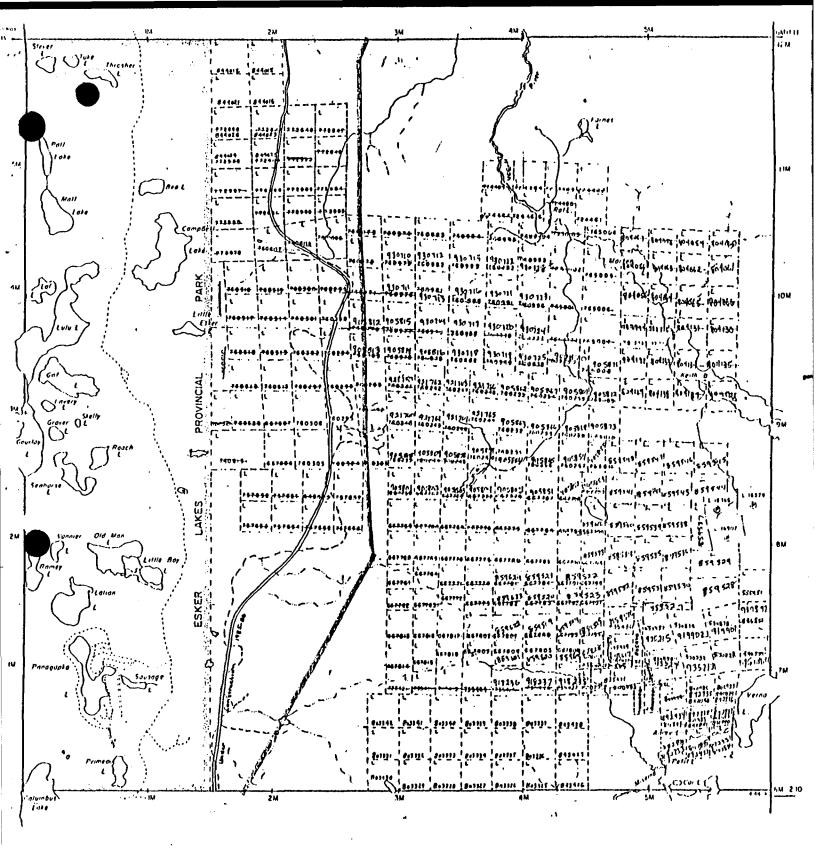
TOPOGRAPHY AND VEGETATION

The property is covered by pleistocene to recent deposits of basal till, clay, aeolian sand dunes and swamp through which 5% bedrock is exposed.

Much of the property is covered by elongate sand dunes separated by low lying flat swampy ground. The sand dunes form elongate W.N.W. to E.S.E. ridges 2 to 10 m high with steep north dipping slopes.

Till deposits and clay are exposed on the east part of the property in areas of higher ground and near outcrop.





* TOWNSHIP OF

CLIFFORD

DISTRICT OF COCHRANE.

LARDER LAKE

GRID LOCATION MAP

C 14

Vegetation consists mostly of pine, spruce and small isolated clusters of birch and poplar. Tag alders are abundant in wet swampy areas.

PREVIOUS WORK

Evidence of previous work in the form of pits is restricted to the eastern central portion of the property. Pyrite mineralization has been observed in these pits.

Assessment work files indicate that Canadex Mining Corporation has carried out a magnetic and VLF-EM survey in this area. A portion of their survey covers the 6 eastern claims.

Mining Corporation of Canada have drilled 5 holes in this area.

Assessment work files have no exact location for the drill holes but none have been located on any of the 18 claims.

GENERAL GEOLOGY

The central portion of the property is underlain by a felsic volcanic unit that is 600 to 800 m wide with a west-northwest axis. It is flanked to the north-northeast and south-southwest by intermediate volcanic consisting of dacite and andesite.

A large quartz gabbro intrusive occupies the southeastern portion of the claim block.

Small intrusives bodies and dykes on the property include; feldspar porphyry, syenite, gabbro and fine grained rhyolite.

SURVEY METHOD

The VLF-EM survey was performed with a Geonics EM-16 unit. Stations were read at 25 meter intervals over north-south lines spaced 125 meters apart covering the entire 18 claim group.

The Cutler Maine transmitter station 24.0 (kHz) was used with the operator facing north.

SURVEY RESULTS

The VLF-EM survey has outlined numerous anomalies on the property. It is apparent from the contoured Fraser Filter presentation of the survey results that there are three main conductor trends across the property; south-east, east-west and north-east. These anomalies are interpreted as three possible directions of faulting.

In some cases the anomalies occur at the northern edge of

outcrops indicating that the outcrop may be fault band. Anomalies occurring at the north edge of outcrops in lower ground may be due to topographical responses.

The south-east trending anomalies are subparallel to the strike of the stratigraphy and may occur at or near the contacts between felsic and intermediate volcanics.

An east-west anomaly that cuts across the entire south central portion of the property has been interpreted as a fault. The anomaly is continuous and crosses three rock types.

CONCLUSIONS AND RECOMMENDATIONS

Three main trends of VLF-EM anomalies have been identified; southeast, east, west and northeast. The anomalies suggest possible faulting in three directions. Many of the discontinuous anomalies occurring in low lying areas proximal to outcrop may be interpreted as topographic responses.

The southeast trending anomalies occurring parallel to subparallel to stratigraphy may follow stratigraphic contacts between felsic and intermediate volcanics.

IP over selected anomalies followed by drilling of targets

located with the IP survey is recommended.

John Karaka

1362 (81/9)

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

L.M. 375/

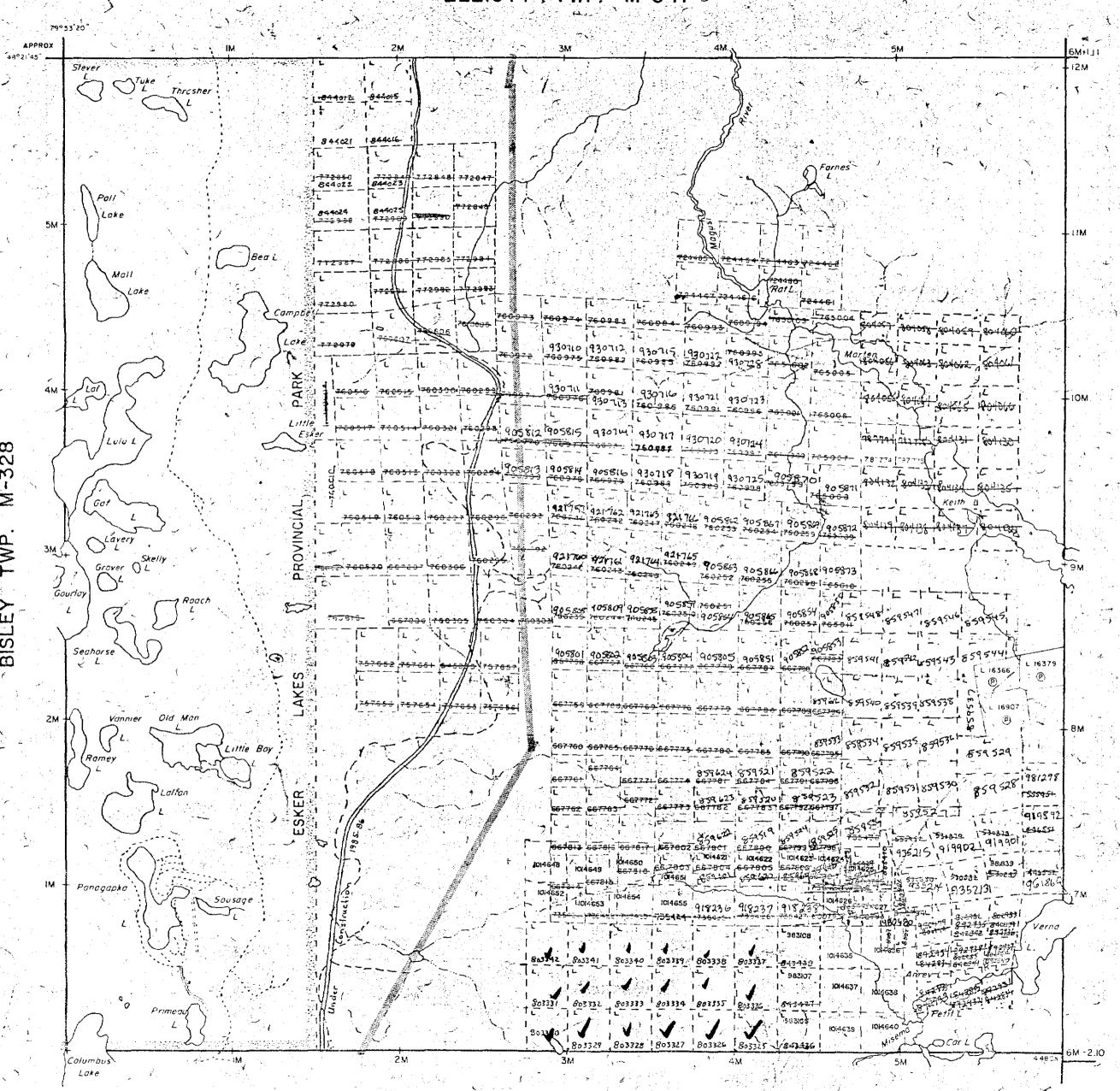


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ARNOLD TWP. M-321

NOTES 🔍

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DISTRICT OF COCHRANE

LARDER LAKE MINING DIVISION

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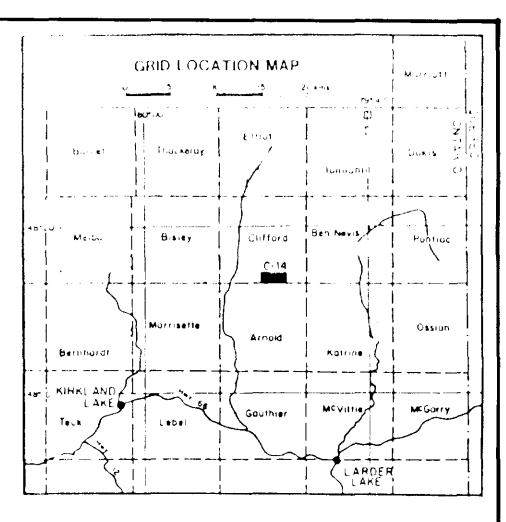
MINISTRY OF NATURAL RESOURCES

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LEGEND

MIDDLE TO LATE PRECAMBRIAN (ARCHEAN)

Mafic to Intermediate Intrusive Rocks

Felsic Intrusive Rocks 5a Feldspar Porphyry 5b Syenite 5e Rhyolite

4a Gabbro

4b Quartz Gabbro

Volcanie Rocks

Felsic Volcanic Rocks
3 Unsubdivided

3a Massive rhyodacite and rhyolite 3b Amygdaloidal rhyodacite and rhyolite 3c Feldspar porphyry rhyodacite and rhyolite

3d Quartz porphyry rhyodacite and rhyolite 3e Tuff and Lappilli: tuff 3f Tuff breedia and agglomerate

Intermediate Volcanic Rocks

2a Massive andesite and dacite 2b Amygdaloidal andesite and dacite Porphyritic andesite and dacite

2d Andesite and dacite tuff and lappilli tuff

Mafic Volcanie Rocks 1 Unsubdivided la Massive basalt and andesitic basalt

SYMBOLS

my Ridge or Slope 👱 Muskey or Swamp

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II Open Area

Creek

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💋 Claim Post

22 Drift features, sand dune 4 Glacial Erattic

Boundary of Outcrop

/ Geological Boundary defined Geological Boundary
Assumed

Strike and dip of top unknown

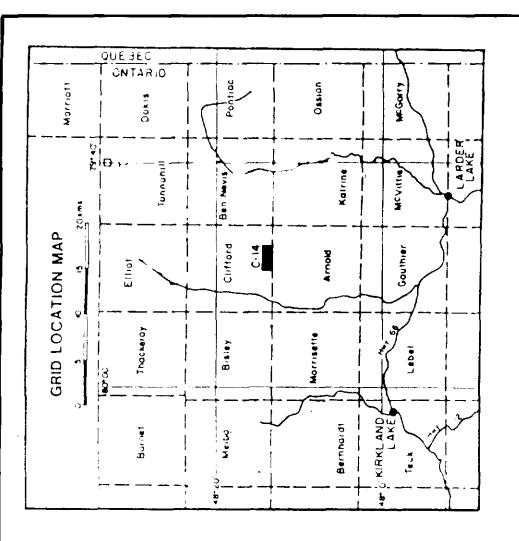
Strike and dip of tops known - Flow Contact

Strike and dip of schistosity

Joints Inclined

Joints Vertical **∕**MFauIt

S Sulphide Mineralization





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GRID C14
CLIFFORD TOWNSHIP

VLF EM Survey
INPHASE AND QUADRATURE

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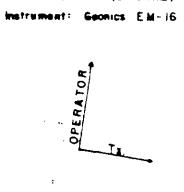
VALUES

Scale 1:5000

0 100 200 300 400 500

LEGEND

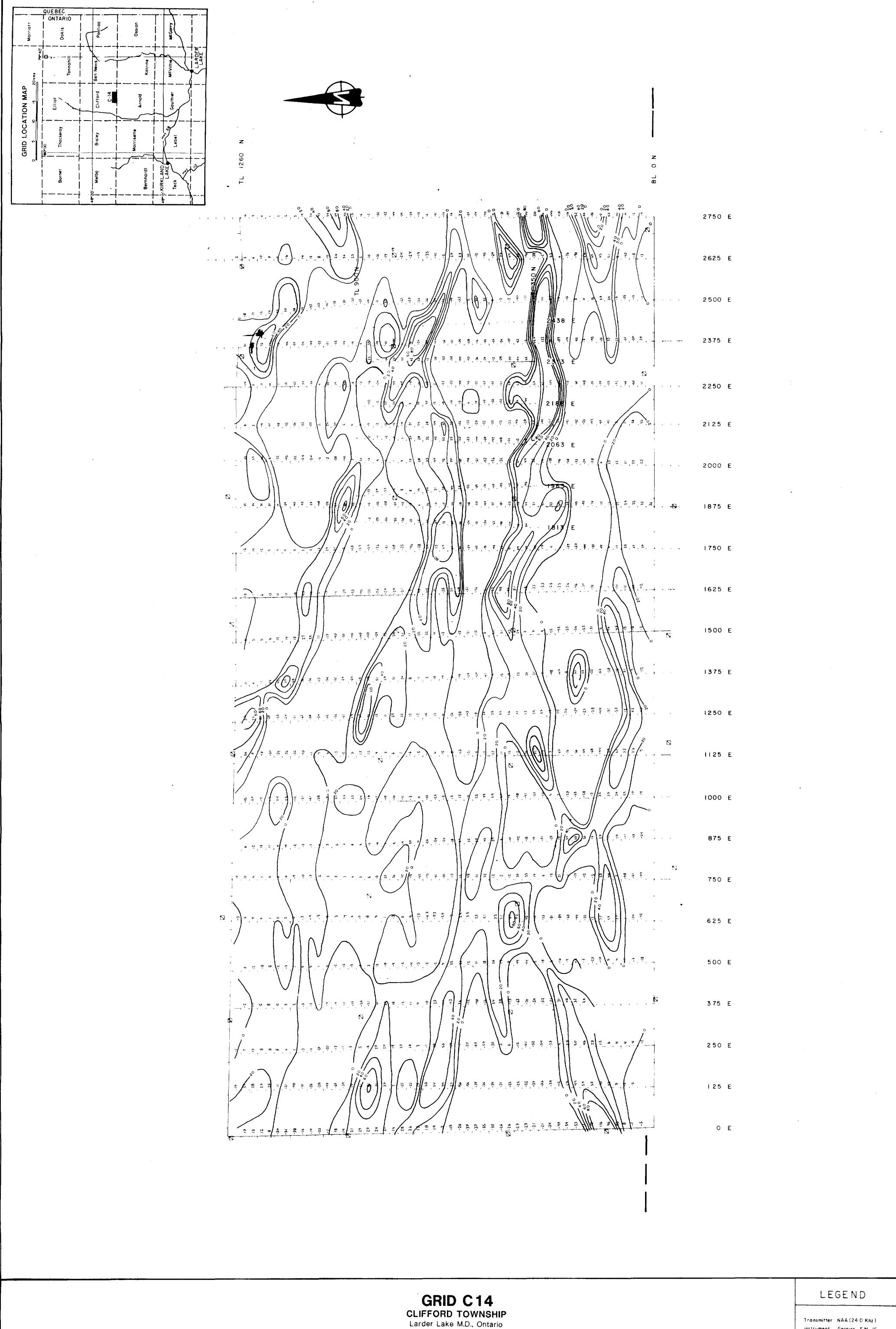
Transmitter: NAA (24.0 Khz)





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VLF-EM SURVEY

(FRASER FILTER PRESENTATION)

Scale 1:5000

METRES

Transmitter: NAA (24.0 Khz) Instrument: Geonics EM-16

June 1987