## **MAGNETOMETER SURVEY**

## **OKA PROJECT**

Powell Township
Sedex Mining Corp.

2.17451

May 1997



41P15NE0027 2.17481 POWELL

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Magnetometer contour map with posting



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#### 1.0 INTRODUCTION:

In February of 1997, a program of linecutting and geophysical surveys was carried out on the Oka Project held by Sedex Mining Corp., 21 Goodfish Rd., P.O. Box 1146, Kirkland Lake, Ontario P2N 3M7. The work was executed and reported on by David Laronde of Meegwich Consultants Inc., P.O. Box 482, Temagami, Ontario POH 2HO.

A total of 40.03 km of grid line establishment was done from a 2500 metre long baseline and tieline running at an azimuth of 060 degrees for control. The entire grid was surveyed for magnetics.

#### 2.0 **PROPERTY**:

The 432 hectare property in Powell Twp. consists of 31 contiguous claims numbered as follows:

531568	531815	531816	511486	511487	511489
511490	1223271	1223287	1223236	1223303	1223285
1223284	1223283	1206306	511488	531614	531619
531560	531613	531567	1206307	1205862	1223288
1206150	1223281	1206148	1206147	1206081	1206077
MR 5421					

#### 3.0 LOCATION AND ACCESS:

The property is situated around Otisse Lake and south of Little Hawley Lake, 2.4 km northwest of the town of Matachewan, Ontario, which is 50 km west of Kirkland Lake. The property can be easily accessed from a secondary road originating from Hwy 566 about 3 km west of Matachewan. This road ends at the north end of Otisse Lake.

Hwy 566 cuts the west side of the claim block in a north to south direction.

#### 4.0 MAGNETOMETER SURVEY:

A total of 40.03 km (3200 readings) was surveyed with a station spacing of 12.5 meters. The sensor was mounted on a 7 ft. aluminum staff to ensure a constant elevation and orientation throughout the survey.

**4.1 Instrumentation:** Gem Systems GSM-19 magnetometers were used for the survey. A base station was set up near the property to monitor and correct for diurnal variation. These instruments are micro-processor based and measure the earth's total magnetic field to an accuracy of one-hundredth of a gamma.

4.2 Survey Results: The results are presented on contoured plans at 1:5000 scale.

A massive high at the north end of the property contains values in the 2000 to 5000 gamma range. In the northeast corner of the property an "irregular pattern" is prevalent. A di-polar response is noted at the extreme north end of L 900 E. From the massive high at the north to the south end of the grid, values gradually decline down to a background of 800 gammas. Five fingers of linear features trend north-south across the surveyed area.

#### 5.0 **GEOLOGY**:

The property is 70% underlain by Archean sedimentary rocks classified as either conglomerate or greywacke. A gold bearing dike of syenite intrudes the sediments in an east-west direction at three locations on the property. Mafic to intermediate volcanic rocks underly the northern section of the

claim group. Matachewan swarm diabase dikes traverse the property in a north-south direction.

The western extension or Matchewan Branch of the Larder-Cadillac Break cuts the property at the south end.

The surrounding greenstone geology off the claim (0.5 km south) contains the prolific Young-Davidson Mines which produced 585,690 ounces of gold from 1934 -1957 and the Matachewan Consolidated Mine which produced 370,427 ounces of gold from 1934-1954.

#### 6.0 CONCLUSIONS AND RECOMMENDATIONS:

In conclusion, the magnetometer served as a valuable tool to outline the contacts of the various rock units as well as adding some insight to a more complex contact between the syenite and the sediment geology.

The massive high dominating the picture at the north end would appear to be outlining the area where the syenite intrusion is in contact with the mafic volcanics. The high readings could be the result of magnetite in the syenite. An explanation is as follows: "a phase of the regular syenite contains a greater amount of biotite, hornblende and magnetite due to assimilation of the volcanic rock intruded and differentiation of the original magma" (p12. ODM Report 51 Geology of the Matachewan Area H.L. Lovell).

A distorted magnetic pattern in the northeast and southeast corner is interesting and should be followed up with I.P.

The gradual decrease in values form north to south is suggestive of a differentiated contact. The south half of the grid appears to be uniform sediments since the values are low and little variation.

The five fingers of narrow highs are more than likely Matachewan swarm diabase dikes (1000 gamma highs). These dikes trend north-south due to a system of joints and faults in the country rock.

Further work on the claim should consist of covering the claim with induced polarisation in search of disseminated sulphides as they relate to gold deposits in the Matachewan camp. Of particular interest is the gold bearing syenite and mafic to intermediate volcanics. The I.P. coverage should be cut back over the sediments to reduce costs.

I.P. Survey dipole-dipole a=25 m 30 km @ \$900

\$27,000

Respectfully submitted,

David Laronde

Geology Engineering Technologist

## References

1964 Ontario Department of Mines - Geology of Powell and Cairo Townships - Map 2110

1967 Lovell H.D. Ontario Department of Mines - Geology of the

Matachewan Area GR 51

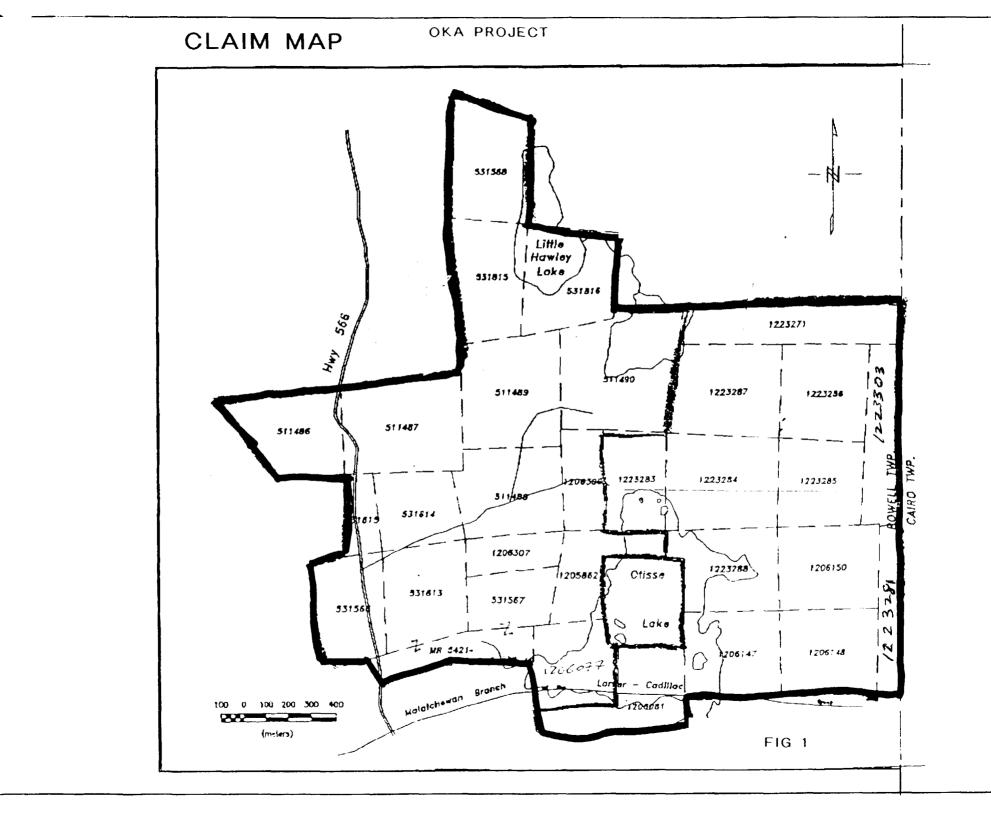
#### CERTIFICATE OF AUTHOR

- I, David Laronde of the town of Temagami, Ontario hereby certify:
- 1. That I am a consulting technologist and have been engaged in my profession for the past 18 years.
- 2. That I am a graduate of Cambrian College in Sudbury with a diploma in Geology Engineering Technology 1979.
- 3. That my knowledge of the property described herein was acquired by field work and documentation.

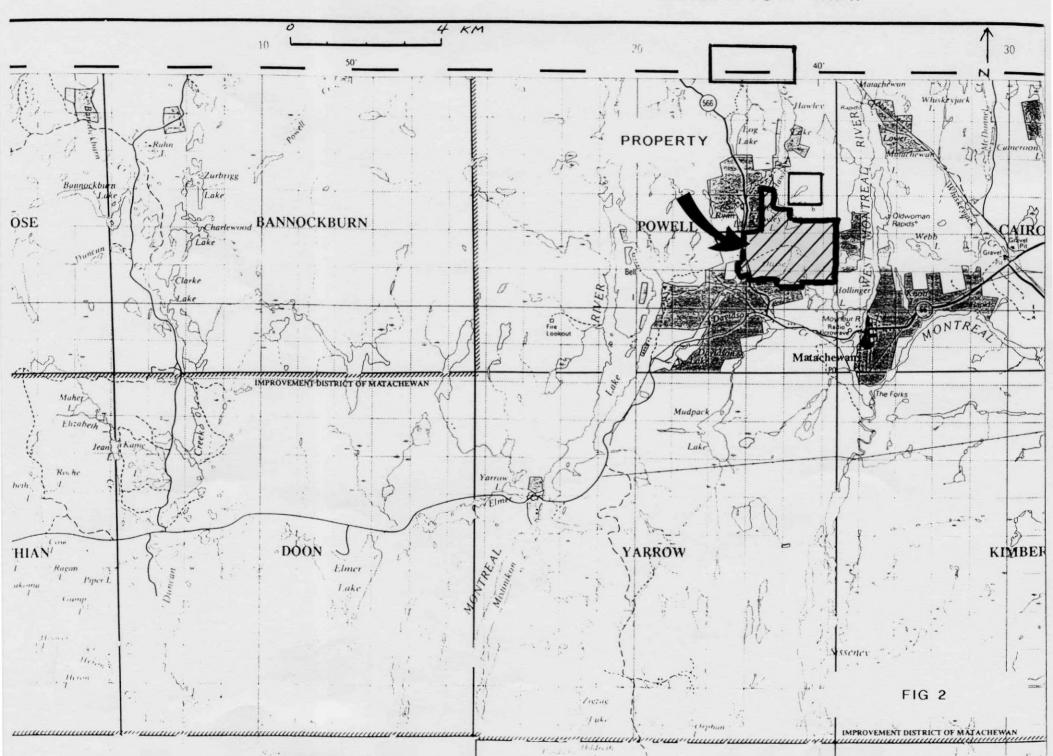
Dated at Temagami this 30th day of May 1997.

a. Launa

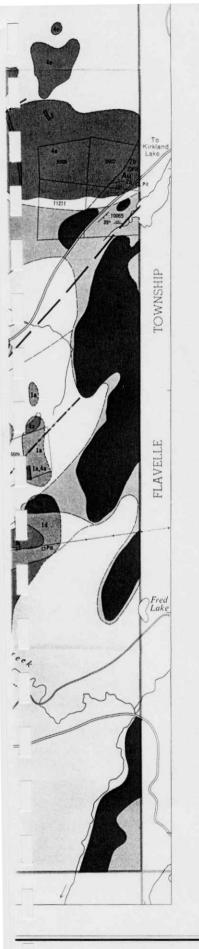
David Laronde



# LOCATION MAP







#### LEGEND

#### CENOZOIC\*

RECENT

Swamp and stream deposits.

PLEISTOCENE

Sand, gravel, clay.

UNCONFORMITY

#### PRECAMBRIAN\*\*

#### PROTEROZOIC

MAFIC INTRUSIVE ROCKS

(Nipissing)



Diabase.

INTRUSIVE CONTACT

#### HURONIAN

COBALT GROUP

Gowganda Formation



- 6a Argillaceous and arkosic quartzite.
- 6b Conglomerate. 6c Argillite.
- 6d Arkose.

UNCONFORMITY

#### ARCHEAN

MAFIC INTRUSIVE ROCKS

(Matachewan)



5 Diabase, undifferentiated.

#### INTRUSIVE CONTACT

#### SILICIC INTRUSIVE ROCKS (Algoman)



- 4a Granite. 4b Granodiorite and granitic gneiss. 4c Syenite.
- 4d Malic syenite and lamprophyre
  4d Malic syenite porphyry and coarse-grained syenite.
  4f Quartz diorite and diorite.

INTRUSIVE CONTACT

## ULTRAMAFIC AND MAFIC INTRUSIVE ROCKS

(Haileyburian)



- 3a Serpentinite. 3b Diorite.

#### INTRUSIVE CONTACT

#### SEDIMENTARY ROCKS

(Timiskaming)



- 2a Conglomerate.
- 2b Greywacke, interbedded argillite and quartzite.
- 2c Arkose.

UNCONFORMITY

#### VOLCANIC ROCKS (Keewatin)



- 1a Basalt and andesite. 1b Bleached, silicified, sericitized vol-
- canic rocks.
  1c Andesite porphyry.
  1d Tuff (banded, and massive types).
  1e Agglomerate.
- 1e Agglomerate.
  1f Rhyolite and dacite.
- 1g Carbonatized and amygdaloidal rocks.
- 1h Amphibolite.

asb Asbestos

Gold. Au

ba Barite.

Carbonate. carb

Copper. Cu

Magnetite. mag

Mo Molybdenum.

Nickel. Ni

Quarty

## INSTRUMENT SPECIFICATIONS

## MAGNETOMETER / GRADIOMETER

Resolution:

0.01 nT (gamma), magnetic field and gradient.

Accuracy:

0.2 nT over operating range.

Range:

20,000 to 120,000 nT.

Gradient Tolerance:

Over 10,000 nT/m

Operating interval:

3 seconds minimum, faster optional. Readings initiated from keyboard,

external trigger, or carriage return via RS-232-C.

Input/Output:

6 pin weatherproof connector, RS-232C, and (optional) analog output.

Power Requirements:

12 V, 200 mA peak (during polarization), 30 mA standby. 300mA peak

in gradiometer mode.

Power Source:

Internal 12 V, 2.6 Ah sealed lead-acid battery standard, others op-

tional. An External 12V power source can also be used.

Battery Charger:

Input: 110 VAC, 60 Hz. Optional 110/220 VAC, 50/60 Hz.

Output: dual level charging.

Operating Ranges:

Temperature: -40 °C to +60 °C.

Battery Voltage: 10.0 V minimum to 15V maximum.

Humidity: up to 90% relative, non condensing.

Storage Temperature:

-50°C to +65°C

Display:

LCD: 240 x 64 pixels, or 8 x 30 characters. Built in heater for opera-

tion below -20°C

Dimensions:

**Console:** 223 x 69 x 240mm.

**Sensor staff:** 4 x 450mm sections.

Sensor: 170 x 71mm dia.

Weight: Console 2.1kg, Staff 0.9kg, Sensors 1.1kg each.

## VLF

Frequency Range:

15 - 30.0 kHz.

Parameters Measured:

Vertical In-phase and Out-of-phase components as percentage of total

field.

2 components of horizontal field. Absolute amplitude of total field.

Resolution:

0.1%.

Number of Stations:

Up to 3 at a time.

Storage:

Automatic with: time, coordinates, magnetic field/gradient, slope, EM

field, frequency, in- and out-of-phase vertical, and both horizontal

components for each selected station.

Terrain Slope Range:

0° - 90° (entered manually).

Sensor Dimensions:

14 x 15 x 9 cm. (5.5 x 6 x 3 inches).

Sensor Weight:

1.0 kg (2.2 lb).

Ministry of Northern Development and Mines Declaration of Assessment Work Transaction Number (office use) Ontario Performed on Mining Land Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990 SDN: OKA Project 13) of the Mining Aot. Under section Biof the and correspond with the mining land holder. Personal Information colle Mining Act, the information Questions about this col hern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Welshil Starwick 900 Instructions: - For work performed on Crown Lands before recording a claim, use form 0240. - Please type or print in ink. Recorded holder(s) (Attach a list if necessary) 090( Address Address elephone Num R Fax Number Type of work performed: Check ( > ) and report on only ONE of the following groups for this declaration. Geotechnical: prospecting, surveys, assays and work under section 18 (regs) Physical: drilling, stripping, trenching and associated assays Rehabilitation Work Type Office Use Magnetometer Survey Commodity Total \$ Value of Work Claimed Dales Worl 02 Month 199. Performed **NTS Reference** Global Positioning System Data (if available) ownship/Area Mining Division Powel Resident Geologist District Please remember to: - obtain a work permit from the Ministry of Natural Resources as required; - provide proper notice to surface rights holders before starting work; complete and attach a Statement of Costs, form 0212;
 provide a map showing contiguous mining lands that are linked for assigning work; - include two copies of your technical report. Person or companies who prepared the technical report (Attach a list if necessary) elephone Number (705) 2904 Address Name Address Fax Number 7 Telephone Number Name **C** CE Fax Number Address 7. Certification by Recorded Holder or Agent , do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

N. or No. Signature of Research

46, KIRKIANDLAKE, ONT J PZN3H7 (705) 567 705

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the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

work wi mining column	Claim Number. Or if as done on other eligible land, show in this the location number ad on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of wor to be distributed at a future date.
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Ministry of Northern Development and Mines

Schedule for Declaration of Assessment Work on Mining Land

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SEN: Welsh/Stanwick OKA AREA Propulice

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Ministry of Northern Development and Mines

# Statement of Costs for Assessment Credit

1	Transaction	Number	(office	use)

SON: Wash / Stanwick

Personal Information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/36. Under section 8 of the Mining Act, the Information is a public record. This Information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 685.

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	make this certification.			

Signature Date Luy 04/97

Ministry of Northern Development and Mines Ministère du Développement du Nord et des Mines



September 24, 1997

THOMAS JOHN ELI OBRADOVICH P.O. BOX 1146 KIRKLAND LAKE, Ontario P2N-3M7 Geoscience Assessment Office 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5

Telephone: (888) 415-9846 Fax: (705) 670-5863

Dear Sir or Madam:

Submission Number: 2.17481

**Status** 

Subject: Transaction Number(s):

W9780.00711 Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at beneteau\_s@torv05.ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

ORIGINAL SIGNED BY

Blair Kite

Supervisor, Geoscience Assessment Office

Mining Lands Section

# **Work Report Assessment Results**

**Submission Number:** 

2.17481

Date Correspondence Sent: September 24, 1997

Assessor:Steve Beneteau

Transaction Number

**First Claim** Number

Township(s) / Area(s)

Status

**Approval Date** 

W9780.00711

1206147

**POWELL** 

Approval

September 24, 1997

Section:

14 Geophysical MAG

Correspondence to:

Resident Geologist Kirkland Lake, ON

Assessment Files Library

Sudbury, ON

Recorded Holder(s) and/or Agent(s):

THOMAS JOHN ELI OBRADOVICH

KIRKLAND LAKE, Ontario

2973090 CANADA INC. VAL D'OR, QUEBEC

DONALD JOSEPH CAMPBELL

MATACHEWAN, Ontario

FRED STAN KIERNICKI KIRKLAND LAKE, Ontario

GINO PAUL CHITARONI

COBALT, Ontario

STEVEN WILLIAM STANWICK

MATACHEWAN, Ontario

ETHEL WELSH

KIRKLAND LAKE, Ontario

ALCANEX LTD.

MISSISSAUGA, ONTARIO

## LIST OF OTHER RECORDED HOLDERS

Don Campbell 115087 241 Amabilis Avenue P.O. Box 176 Matachewan, Ontario P0K 1M0

Fred Kiernicki 152022 P.O. Box 1143 82 Bernhard Drive Kirkland Lake, Ontario P2N 3M7

Gino Chitaroni 117474
P.O. Box 699
50 Silver Street
Cobalt, Ontario POJ 1C0

Steve Stanwick 197212 P.O. Box 82 Dale Street Matachewan, Ontario P0K 1M0

Ethel Welsh 2075 86 79 Gov't Road East, Apt. 4 Kirkland Lake, Ontario P2N 1A6

Alcanex Limited 101512 1365 Clarkson Road North Mississauga, Ontario L5J 2W6 2.17431



