REPORT OF THE AIRBORNE MAGNETOMETER AND VLF-EM SURVEY
ROSS MORIN PROPERTY
MUSKEGO, REEVES, KEITH AND PENHORWOOD TWPS.
NORTHEASTERN ONTARIO

RECEIVED
APR - 3 1989
MINING LANDS SECTION

L.E. Reed
Chief Geophysicist
BP Resources Canada Ltd.
March 31, 1989
A helicopter borne magnetometer and VLF-EM survey was carried out during January 1989 over a contiguous group of claims identified as the Ross-Morin option. These claims are found at the intersection of Muskego, Reeves, Keith and Penhorwood Twps., in the Porcupine Mining Division, District of Sudbury. The claims are as follows:

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SURVEY

The details of the survey are found in the Project Report of the Ross-Morin Survey by Sander Geophysics Ltd. attached to this report.

SURVEY RESULTS

Magnetics

East-westerly trending magnetic highs pass through this property. There is a suggestion of a series of magnetic and non-magnetic formations in places disrupted by north northwesterly trending structures. In part these structures are marked by magnetic dykes.

VLF-EM

The VLF electromagnetic survey is presented as profiles of inphase and quadrature responses. While this form of presentation presents some difficulties in perception and resolution, there appear to be a number of conductive features lying east westerly through the property.

CONCLUSIONS

There is a need to do a detail correlation of magnetic and electromagnetic features with the lithology. Such detailed evaluation is likely to provide a useful expansion of the view of the lithology.

L.E. Reed
Chief Geophysicist
PROJECT REPORT

ROSS-MORRIN OPTION SURVEY

FOR

BP RESOURCES CANADA LTD.

March 29, 1989

SANDER GEOPHYSICS LIMITED
303 Legget Drive, Kanata, Ontario, Canada, K2K 2B1
Phone (613) 592-1301. Telex 053-4755. Cable GEOSAND
Sander Geophysics carried out a helicopter-borne aeromagnetic and VLF-EM project in the region of Foleyet, Ontario during the month of January, 1989. Traverse lines were flown in the North-South direction at a 100 m line spacing, with a 70 m mean terrain clearance. Three control lines were flown perpendicular to the traverse lines. The survey was flown over the Ross-Morin Option for British Petroleum Resources Canada Ltd., Mining Division in parts of Muskego, Kieth, Reeves and Penhorwood townships.

The survey was flown using Sander Geophysics' Aerospatiale ASTAR AS350D helicopter with a Scintrex cesium magnetometer in a towed bird. The bird was towed 40 m below the aircraft giving a mean sensor height of 30 m. VLF was measured using a Hertz Totem 3A VLF-EM instrument with coils mounted externally on the aircraft. Navigation data was measured using Trimble 4000AX Global Positioning System receivers. GPS data was also used for flight path recovery and was checked using an aircraft mounted downward looking video system.
FIELD OPERATIONS

The base of operation used for the survey was the Moose Land Lodge just east of Foleyet, Ontario. The lodge provided a good helicopter landing area. Fuel was trucked in from Timmins, Ontario in 55 gallon drums. Field personnel on the project were - Field operations manager, Reed Archer, B.Sc, Pilot Navigator, Brian Simms, B.Sc, and aircraft engineer, John Cheslock.

The survey area is generally flat with a major highway running through the centre of it. There are several lakes in the survey area, so navigation by visual means was not too difficult. In order to maintain the 100 m line spacing GPS navigation was used for the entire operation. Because of the satellite window available during the survey period - January, 1989, flights were limited to 1 1/2 h between noon and 1:30 p.m. local time.

The survey aircraft used was an Aerospatiale ASTAR AS350D Canadian registration, CG-SGL. The Astar is a turbine engined helicopter capable of flights of up to 5 h at 100 knots. CG-SGL is fully equipped for geophysical surveying including downward looking camera and GPS navigation system. Because of the limitations of GPS satellite availability the helicopter could easily fly for our maximum flight times. Sander
Geophysics operates its helicopters under the National Transportation Agency of Canada license # 880328.

Airborne Magnetometer and Compensation

The aircraft was equipped with a Scintrex non-oriented cesium magnetometer model H8 mounted in an aerodynamically designed bird, towed 40 m below the aircraft. Measurement of the LARMOR frequency was done using a compensator originally developed by Sonotek and now manufactured by RMS.

Data Recording System

The ABAT recording system recorded data using a specially designed airborne AT compatible computer. Our current system allows an unlimited number of channels to be recorded at up to 10 hertz. The magnetometers were sampled and recorded eight times per second. Data was checked after recording; the recording process is essentially error free.

Time Base

Internal battery backed-up clock records day of the year, 24 hour clock and seconds to a tenth of a second and is
updated by the GPS time standard each second. The GPS time standard is extremely accurate.

Ground Station

Sander NPM-5 nuclear precession magnetometer was used to record diurnal changes in the earth's magnetic field. We used a new ground station recorder system which consists of a portable Sharp PC 5000 computer and a computer-controlled line printer. The paper speed of the printer is variable over a wide range to allow a difference between the speed during the survey and for slower recording when not surveying.

Sander Airborne VLF-EM System

A Hertz Totem VLF-EM system recording one station was used. The station of Cutler MA (NAA) was used for most of the survey. When Cutler was not broadcasting, Annapolis MD (NSS) was recorded.

Positioning Cameras and Recording System

The aircraft was equipped with a Panasonic video recording system. Time from the ABAT recorder was superimposed on the video signal.
**GEOPHYSICAL EQUIPMENT**

The following geophysical equipment were used in the survey for navigation and data collection:

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DIGITAL DATA COMPILATION

Data compilation was performed in the SGL computing center in Kanata, Ontario. SGL's computing center is equipped with modern 386 IBM compatible microcomputers. Preliminary maps are printed on dot matrix printers and final ink maps are plotted using a Bruning pen plotter on stable base material. SGL has developed and maintained a full suite of data processing software, specifically designed for geophysical maps. Data processing was performed by Blair Walker, B.Sc, with the assistance of Adrian Weber, B.Sc, under the supervision of Stephan Sander.

The main steps in data processing for the BP Ross Morin project are outlined below.

a) Flight path recovery

Flight path was checked using the video images from the aircraft mounted video recorder. The person performing flight path recovery selected the best point on each line, using aerial photographs and the base maps blown up to a scale of 1:10,000. Locations were recorded on the stable base maps and digitized. The picked points were then compared to the GPS determined locations to locate any problems with the GPS recording or measurement. Some minor
adjustments were required to the GPS data to account for the change to the base map datum and for some atmospheric effects. Generally, the 3 satellite GPS data was very accurate. The corrected GPS data was then plotted and redundant data was edited out.

b) Magnetometer data processing

The magnetometer data was plotted in profile form to check for spikes or other data problems. No spikes were found in this data set. Control line data were levelled using a straight line approximation of the diurnal changes recorded on the base station magnetometer during the time when that control line was flown, and levelled to an average value of the traverse lines. Intersection values were calculated for each traverse - control line intersection based on the GPS locations. However, due to the extreme activity of the data in much of the survey area and the short length of the lines, levelling using the control lines was very difficult. Because of the large amount of the subjective judgement required to determine the correct levelling adjustment for each line, it was decided to correct the data using the base station magnetometer data before levelling was attempted. A variation from the average value of the digitally recorded base station magnetometer was subtracted from each magnetometer reading, to remove
the diurnal changes in the earth's magnetic field. In this survey where the changes in the magnetic field were very large, we found that the base station subtraction method produced a more consistent looking map with less subjective input required by the geophysicist performing the data compilation. Magnetometer data were gridded using a modified Akima Spline grid (Akima 1970). Contouring was performed using SGL's proprietary contouring packages. No filtering or spike removal was performed on the magnetometer data.

c) **VLF-EM data**

The VLF-EM data was corrected for changes in level of transmission strength and plotted as profiles along the actual flight lines.
Report of Work
(geophysical, geological, geochemical and expenditures)

Project: Ross-Morin
Property: 1

Ontario Ministry of Northern Development and Mines

Type of Survey(s)
Airborne Mag and VLF-EM Survey

Claim Holder(s)
BP Resources Canada Limited

Address
55 University Ave., Suite 1800, Toronto, Ontario MSJ 2H7

Survey Company
Sanders Geophysics - 55 University Ave., Suite 1800, Toronto, Ontario M5J 2H7

Date of Survey
31/01/89 to 02/02/89

Total Miles of line Cut
N/A

Credited Requested per Each Claim

Special Provisions
For first survey:
Enter 40 days (for each)

Man Days
Complete reverse side and enter total here

Expenditures (includes power stripping)

Type of Work Performed
Airborne Mag and VLF-EM Survey

Assessment Files
Performed on Claim(s)
JHN 6 1989

Calculation of Expenditure Days
Expenditure

Total Days
Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Date Recorded
January 26, 1989

Certification Verifying Report of Work
Susan Telfer - 55 University Ave., Suite 1800, Toronto, Ontario MSJ 2H7

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.

Name and Address of Person Certifying
Susan Telfer - 55 University Ave., Suite 1800, Toronto, Ontario MSJ 2H7

Date Certified
January 26, 1989
**REPORT OF WORK (CONTINUED)**

**BP Resources Canada Limited**
Airborne MAG and VLF-EM Survey

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**TOTAL: 140 Claims**

\[ \text{**Certified:** January 26, 1989} \]
\[ \text{Susan Telfer} \]

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\[ \text{V} = 20 \times 50 = 1000 \]
\[ \text{OK} = 41 \times 80 = 3280 \]
\[ \text{TOTAL} = \underline{6966} \]
April 3, 1989

Ministry of Northern Development & Mines
Mining Lands Section
880 Bay Street
3rd Floor
Toronto, Ontario
M5S 1Z8

Report of Work: W.8906-168

Dear Sir/Madam,

RE: PROJECT: ROSS-MORIN - Airborne Mag and VLF-EM Survey
Report and Maps

PROPERTY: 1
MAPS: MUSKEGO, KEITH, REEVES, PENHORWOOD

Further to our Report of Work recorded February 3, 1989, please find enclosed the following:

CONTENT: Report of the Airborne Magnetometer and
(in duplicate) VLF-EM Survey by L.E. Reed, Chief Geophysicist,
March 31, 1989.

Project Report, Ross-Morin Option Survey for
BP Resources Canada Ltd., by Stephen Sander,
March 29, 1989.

Drawings: Airborne VLF-Electromagnetic Maps (1 to 3)
Aeromagnetic Total Field Maps (1 to 3)
Location Map

Yours very truly,

Susan Telfer
Administrator of Mining Lands

RECEIVED
APR - 3 1989
MINING LANDS SECTION
QUALIFICATIONS OF AUTHOR OF GEOTECHNICAL SURVEY REPORT

Eric Craigie, author of the enclosed reports, is a graduate of the University of British Columbia. He graduated in 1969 with a Bachelor of Science Degree in Geology and is now a Senior Geologist with BP Resources Canada Limited, Mining Division.
This map is a detailed survey of the township of Muskego in the District of Sudbury, Ontario. It includes the following features:

- **Patented Land**
- **Crown Land Sale**
- **Leases**
- **Licensed Land**
- **License of Occupation Land**
- **Mining Rights Only**
- **Surface Rights Only**
- **Roads**
- **Improved Roads**
- **Kings Highways**
- **Railways**
- **Power Lines**
- **Marsh or Muskeg**
- **Mines**
- **Cancelled**
- **Patented for S.R.Q**

**Legend Notes**:
- 400' surface rights reservation around the shores of all lakes and rivers.
- Subdivision of this township into lots and concessions was annulled March 6, 1962.
- Areas withdrawn from staking under Section 43 of the Mining Act (R.S.O. 1970) as shown.

**Specific Information**:
- **PLAN NO. M-881**
- **DATE**
- **RECEIVED**
- **ONTARIO MINISTRY OF NATURAL RESOURCES SURVEYS AND MAPPING BRANCH**
THE TOWNSHIP OF
REEVES
DISTRICT OF SUDbury
PORCUPINE MINING DIVISION
SCALE: 1-INCH - 4O CHAINS

LEGEND

PATENTED LAND •
CROWN LAND SALE •
LEASES •
LOCATED LAND •
LICENSE OF OCCUPATION •
MINING RIGHTS ONLY •
SURFACE RIGHTS ONLY •
ROADS •
IMPROVED ROADS •
KING'S HIGHWAYS •
POWER LINES •
MARSH OR MUSKEG •
MINES •
CANCELLED PATENTED E.R.G.

NOTES

400' surface rights reservation along the shore of all lakes and rivers.
Areas withdrawn from staking under Section 45 of the Mining Act (R.S.O 1970).

PLAN NO. M.1074
SURVEYS AND MAPPING BRANCH
MINISTRY OF NATURAL RESOURCES
ONTARIO
BP MINERALS DIVISION
ROSS-MORIN PROPERTY

AIRBORNE VLF ELECTROMAGNETIC MAP

TOTAL

QUADRATURE

INDEX

1

3

2

Scale: 1:10,000

1 MILE

1 KILOMETER