

Report for Mespi M 42A11SW0102 63.2413 JAM 1:Vering a Magnetomoter Durvey Damarson Township, Porcupine Mining District

CONTROL S ACCESSA & NOTTAGOL

The drain group covered in this report consists of 21 continuous claim as Follows: P-95675 to P-95678 inclusive, F-95675 to P-96668 and P-97470 to F-97477 inclusive. P-96665, P-96668 and P-97470 to F-97477 inclusive. They are situated immediately east of the Mattagar of the increment portion of Jamieson Township. Access is via the Factagard given on the Power Line road (winter road) which access the datagard group.

SHIPPY:

The area has a moderate to heavy (50° to 200°) glacial law reser. The milling in the vicinity or the claims indicates that the variable in by east-west striking rhyolites and andesites. The millagand siver is appointed at occupying a major fault zone. Supercus northes such striking diabase dikes are known to occur in the area.

THE THINKING THE DOT HE SERVEY:

A sharpe instruments Limited MF-1 Fluxgate magnetometer than used throughout the survey. This instrument reads directly in gasmas, and if operated with care is capable of an accuracy of ± 5 queras. The section is ponent of the earth's magnetic field is ressured. All normal drift corrections were applied to the readings.

Times were but in a 400° grid by B. Todd, Contractor, P.O. B x CD7, Timeing, Entering. A total of 12.5 miles were completed during the peak of buly 15th to 30th, 1968. The Sharpe Fluxgate

instrument was operated by Mr. A. F. Bessette of Mespi Mines

17.35 ed during the period August 7th to 10th, 1968. Total number
of stations read was 2002.

Three strong north-south anomalies are most likely diabase diker. I estimable offset in the dikes occurs between lines 18:00E at 13:00N and line 19:00W at 7:00N. A fault strik-ling in a direction approximately perpendicular to the power line in this suspected. Throw on this suspected fault would be in the order of 1.1. This structural information would perhaps a cost on the interpretation of other surveys. Depth of overburden calculations indicate the thickness of the clay covering the diabase affects to be in the order of 2001.

Respectfully submitted,

Toronto, Ontanio.

Becamber 20th, 1968.

Consulting Geophysicist.



Report for Mespi Report Covering an Electromagnetic Survey Jamieson Township, Porcupine Mining District

LOCATION & ACCESS OF CLAIMS:

The claim group covered in this report consists of a continuous group of 18 claims as follows: P-95675 to P-95678 inclusive.

1ve, P-95085 to P-95992 inclusive and P-96664 to P-96669 inclusive.

They are located between the Mattagami River and the power line read in the north-east portion of Jamieson Township. Access from Timmins is via the Mattagami River or along the power line road (winter road).

GROLOGY:

The area has a moderate to heavy (100' to 200') of glacial clay cover. Regional deology would indicate bedrocks of greenstone.

INSTRUMENT USED IN SURVEY:

A Chone Dual-Frequency E.M. machine was used. This equipment is described in the enclosed brochure. Serial number of the unit was 41-67, 1.855 - 480 cps. type. The standard Crone In-Line method was used with a separation between the operators of 300° . Stations are recurred at the mid point between the two men. Accuracy of reading as $\pm 2^{\circ}$.

I INECUTTING AND OPERATORS:

A 400 line interval grid was cut by Charles McAllister, P.C. Box 561, Schumacher, Ontario, Contractor. In all 13.6 miles of line were cut between February 2nd to 21st, 1968. The E.M. work was under the direction, in the field, of Mr. H. Z. Tittley of 224 Ross Avenue East, Timmins, Ontario. A total of 583 stations were read during the period April 1st to 16th, 1968.

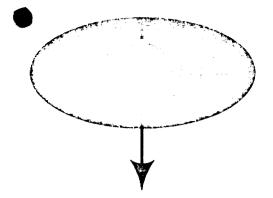
INTLKPRETATION:

Mattagasi River his approached. This causes a background of negative readings at the high frequency, increasing from -2° on line despected on line 24+00%. This would indicate a depth of clay in the order of 150° on line 24+00%. The reading frequency was switched to decompose at the background effect. All readings between 624+00% and the river were thus taken at the low frequency. Three weak angulations were detected on lines 20%, 24% and 36% as marked on the map. The anomalies are weak as can be expected with this depth of everburden and must be detailed with a vertical loop on-powerous account for further avaluation.

Respectfully submitted,

Toronto, Ontario, December 20th, 1968.

Consulting Geophysicist.



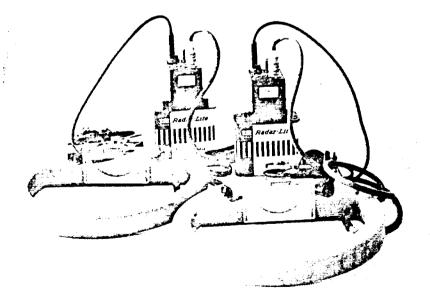
CRONE GEOPHYSICS LIMITED

979 LAKESHORE ROAD E. PORT CREDIT, ONTARIO CANADA

Phone: 274-3704

patented * EM method that permits accurate surveys without line cutting even in areas of very rugged terrain.

Since this method was developed 10 years ago by Duncan Crone it has become one of the most extensively used ground EM methods in Canada and the United States. In this period the JEM has been the basic ground EM equipment that in conjunction with other exploration methods has discovered over 110,000,000 tons of ore.



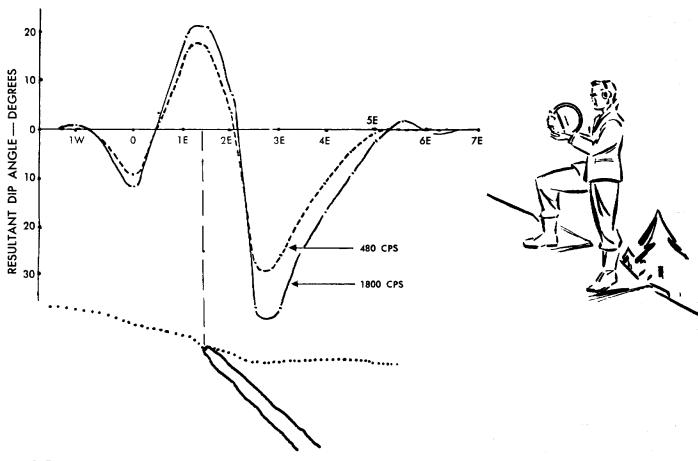
- accurate dip and conductivity analysis
- depth penetration in the order of 150'
- simple, reliable instrumentation and operation

 can be used with the Crone method or as a vertical loop unit

This is a two man operation each carrying a unit capable of transmitting and receiving. They are spaced 200' or 300' apart and travel along the same line. Both transmit and receive, the two dip angles thus obtained are then added together. If the resultant is "O" no conductors are present, otherwise a pattern is obtained dependant on the depth, dip and strike of the conductor.

^{*} Canadian Patent # 631,506 and U.S. # 309,911

Example of a JEM traverse over a dipping conductor located in Denbigh, Ontario.



SPECIFICATIONS

1) Standard Unit

- Massive Sulphide Exploration

480/1800 CPS

2) High Frequency Unit

- Disseminated Sulphide Exploration

1800/3600 CPS

READOUT

— Dip angle from inclinometer ± ½°

NULL INDICATOR

Audio through crystal earphones

WEIGHT

Per man each transceiver unit — 15 lb.
 Shipping weight including 2 spare batteries — 55 lb.

RANGE

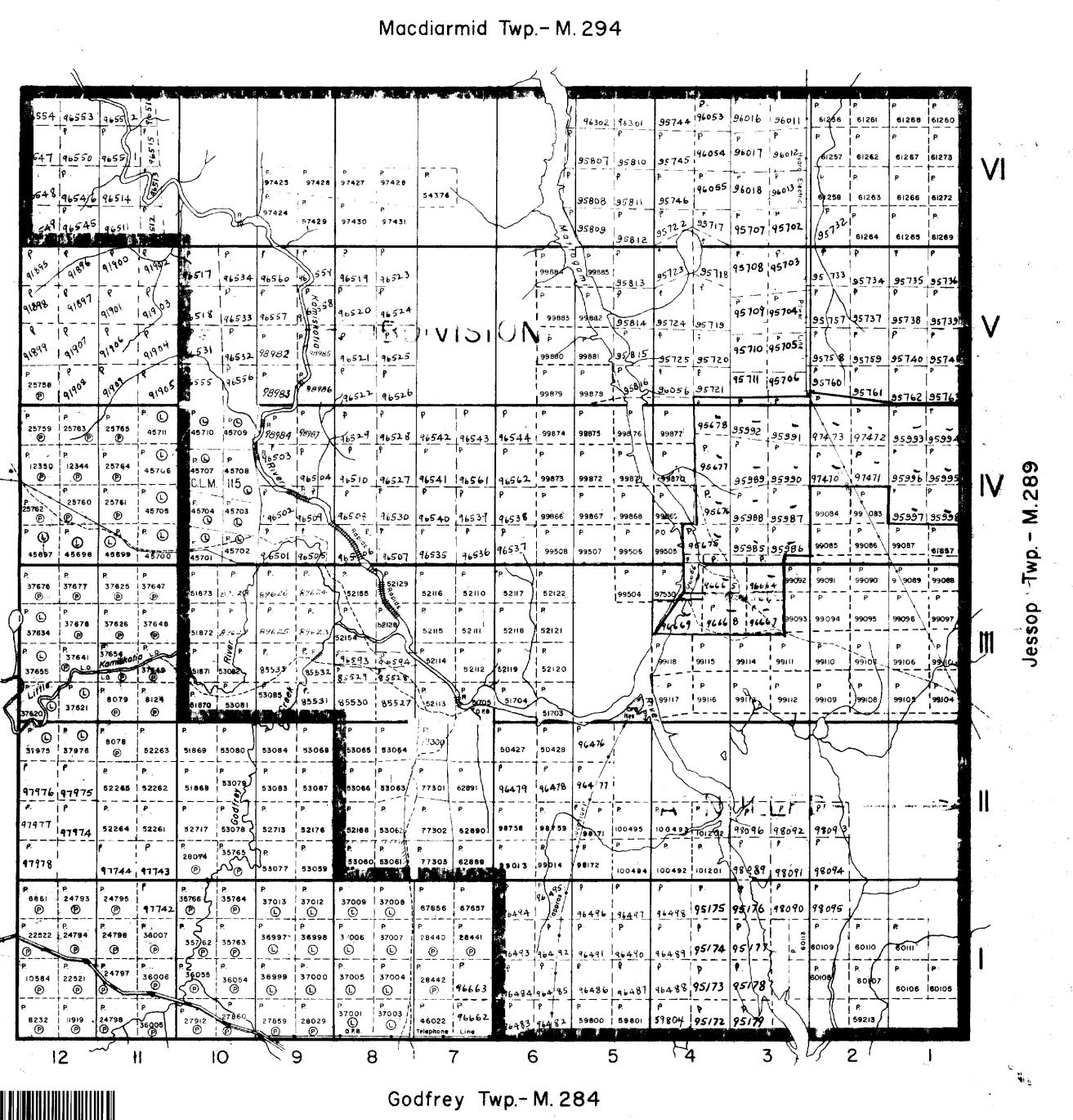
non-conductive overburden 1° wide null at 300′
 non-conductive overburden 15° wide null at 500′

BATTERY POWER

Normal 12 volt — TW-2 Burgess; 732 Eveready, M-919 Mallory
 Hi Power 18 volt — 3 of 6 volt F4BP Burgess and Adaptor
 BATTERY LIFE — 2 weeks to 1 month
 RECEIVER — 1.4 volt mercury RM1R — life 1 year

PRICE \$2,000.00 including method rights

RENTAL \$110.00 per month



THE TOWNSHIP OF

JAMIESON

DISTRICT OF COCHRANE

PORCUPINE MINING DIVISION

SCALE:1-INCH=40 CHAINS

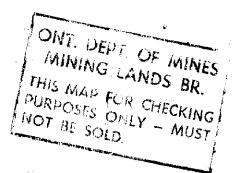
LEGEND

PATENTED LAND	· · · / @
CROWN LAND SALE	C.S
LEASES	. 0
LOCATED LAND	Loc
LICENSE OF OCCUPATION	L.O
MINING RIGHTS ONLY	M.R.C
SURFACE RIGHTS ONLY	\$.R.C
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	* #3
MINES	*
CANCELLED	C

NOTES

400' Surface Rights Reservation around

Flooding rights to areas along Mattagami, River to H.E.P.C. — L.O. 7085.



PLAN NO.- M.288

DEPARTMENT OF MINES

— ONTARIO —

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