



41104NE0071 2.12030 CURTIN

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VLF AND
MAGNETIC SURVEY
Claim 994573
Curtin Township
Ontario

Prepared for Roger Stringer

Deal 2.11739
Author: Frank Racicot
Date: Nov., 1988

RECEIVED
JAN 10 1989
MINING LANDS SECTION

LOCATION AND ACCESS

The property is located in Curtin Township approximately 40 miles (65 km) west of Sudbury, Ontario. The property is reached by driving west on Highway 17 to Highway 68 - the Manitoulin-Espanola turnoff. Proceed south 12 miles (20 km) to the hamlet of Willisville about 1.5 miles (2.5 km) north of the village of Whitefish Falls. By means of motor boat one proceeds 3 miles (5 km) to the east end of Charlton Lake to Howry Creek. One then proceeds an additional 3 miles (5 km) as the crow flies, up this narrow, winding creek to an old abandoned farm. The claim is one quarter mile to the north.

TOPOGRAPHY

Overburden cover in the area is thin, it is generally clay, but organic rich in places. There is a beaver pond on the east side of the property and a stream departing the pond more or less follows the southern contact of Nipissing Diabase and Gowganda metasediments.

Outcrop exposure is generally better over the diabase (5-10%) in the north half of the claim compared to the metasediments in the south. The metasediment ridges are slightly lower than the diabase.

INTRODUCTION AND GEOLOGY

A ground survey was performed on claim 994573 on May 12, 1988. This claim is the newest claim on a block of 11 claims known collectively as the Howry Creek Prospect.

The property is bounded on either side by three properties. Gold mineralization, associated with arsenopyrite and pyrite, occurs in quartz veins or in silicified shear zones; these mineralized zones occur in Gowganda metasediments.

There are six sulfide showings (mainly chalcopyrite) on this claim in an east-west trending Nipissing Diabase sill.

A northwest trending, 10 metre wide magnetic pyroxenite dyke is found predominantly on this claim and contains very high anomalous values of combined platinum-palladium.

SUMMARY OF PREVIOUS WORK

Before the claim came into possession of the current owner, an airborne geophysical survey was done in 1987 by Aerodat Ltd. on this new claim and ten neighbouring claims. The following surveys were performed:

- 1) Total Field Magnetics (contours and colours)
- 2) VLF-EM Total Field (contours and colours)
- 3) Measured Vertical Magnetic Gradient (contours and colours).

Average terrain clearance was 30 m and line spacing was 100 m.

All maps were plotted on a scale of 1:10,000.

Four pits of unknown origin and different ages were located on this property.

This property is bounded on either side by three significant properties.

About one mile to the east and on strike, is the old Bousquet Mine. Between 1936 and 1938 a 50 ton per day mill extracted 4672 ounces of gold and 196 ounces of silver. A mineralized quartz vein contained pyrite, arsenopyrite and gold.

Less than one quarter mile to the southeast is Howry Creek Mine. Gold occurs in a mineralized quartz vein which is brecciated, sheared and silicified; with arsenopyrite and possibly some pyrite. Ken Card reports a grab sample of 0.54 ounces of gold per ton from the old shaft dump.

A third site, the Bridger Pond Occurrence, occurs less than half a mile north from claim 994573. At this occurrence, Gowganda metasediments have been faulted and silicified - and in turn intruded by quartz-carbonate veins. This set of veins is small and apparently only sparsely mineralized.

MAGNETIC GEOPHYSICAL SURVEY

The claim had a grid established on it with lines 100 metres apart and stations set at 25 metre intervals. Cross lines were orientated in a north-south direction while the base line was established in an east-west direction.

Ninety-three readings were done on 21 kilometers of grid lines.

A Fluxgate MF-1 magnetometer with a resolution of ± 10 gammas was used for the survey. The #2 post was used as the base station. During the course of the survey there was no diurnal variation, therefore the readings did not have to be adjusted.

INTERPRETATION

There is an obvious narrow northwest trending magnetic high that corresponds closely with the magnetic pyroxenite dyke that was observed when the property was mapped.

VLF
GEOPHYSICAL SURVEY

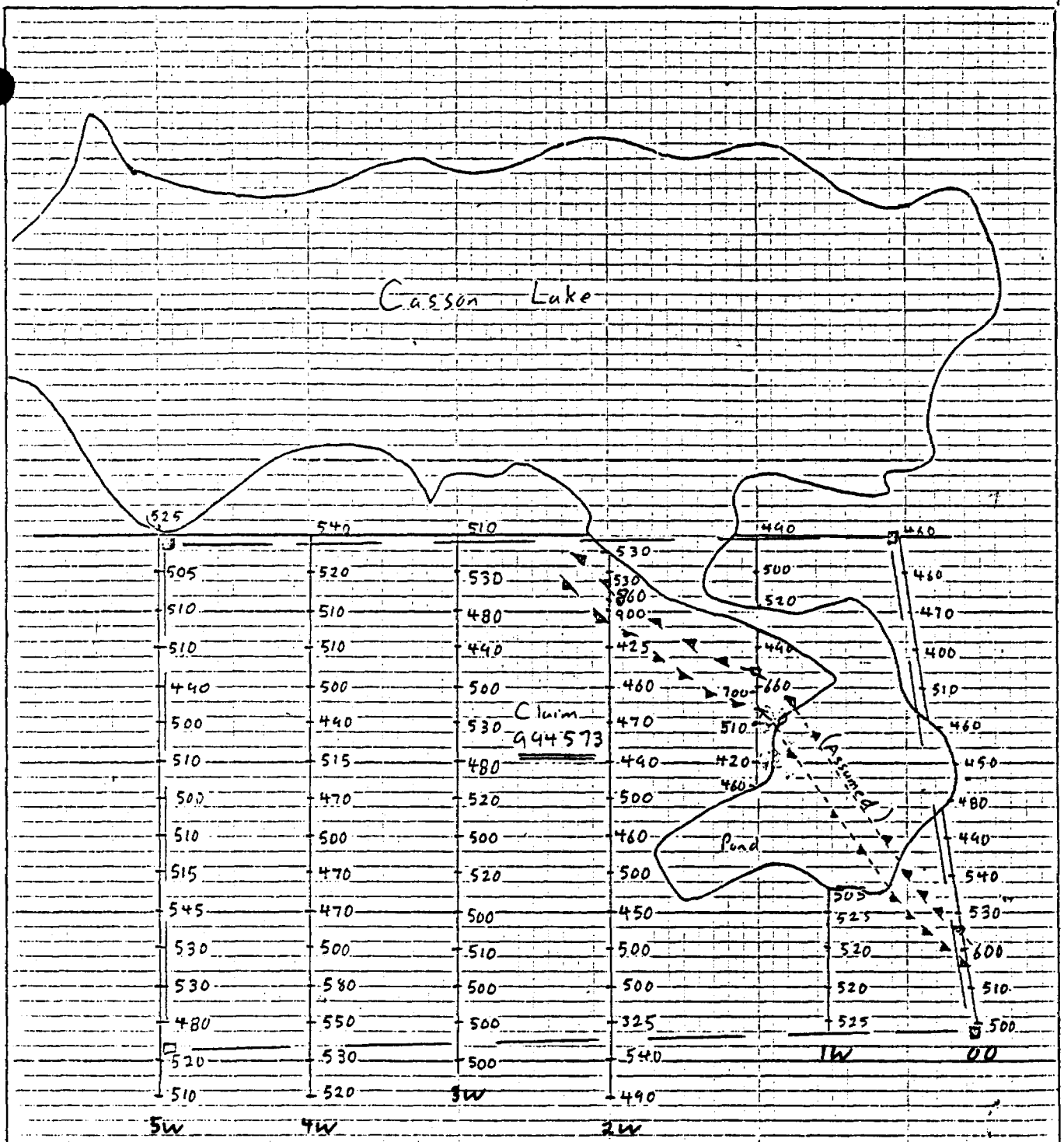
The claim had a grid established on it with lines 100 metres apart and stations set at 25 metre intervals. Cross lines were orientated in a north-south direction while the base line was established in an east-west direction.

Seventy-five readings were done on 17.5 km of grid lines.

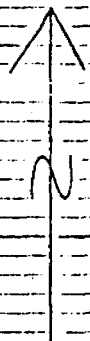
A Geonics EM-16 unit was used, utilizing the frequency emitted from Cutler, Maine, U.S.A. The resolution of this instrument is reported at $\pm 1\%$ of dip (tangent of tilt angle).

INTERPRETATION

There are two conductors located on this claim in an east-west direction. The main conductor is the more northerly of the two and it traverses the entire claim. This conductor does come relatively close to several of the pits which have sulfide mineralization. The second conductor does not continuously traverse the claim and may be either disjointed or two separate conductors. Part of this second conductor occurs directly over the southern contact of the Nipissing diabase.



Legend



- ▲ —▲ — Mag High Contour Line
- ▲ - - -▲ - Assumed Mag High Contour Line
- ✦ — Claim Post
- — Contoured at 595'



Scale
1" = 100m

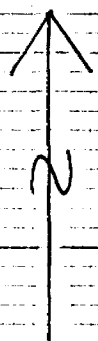
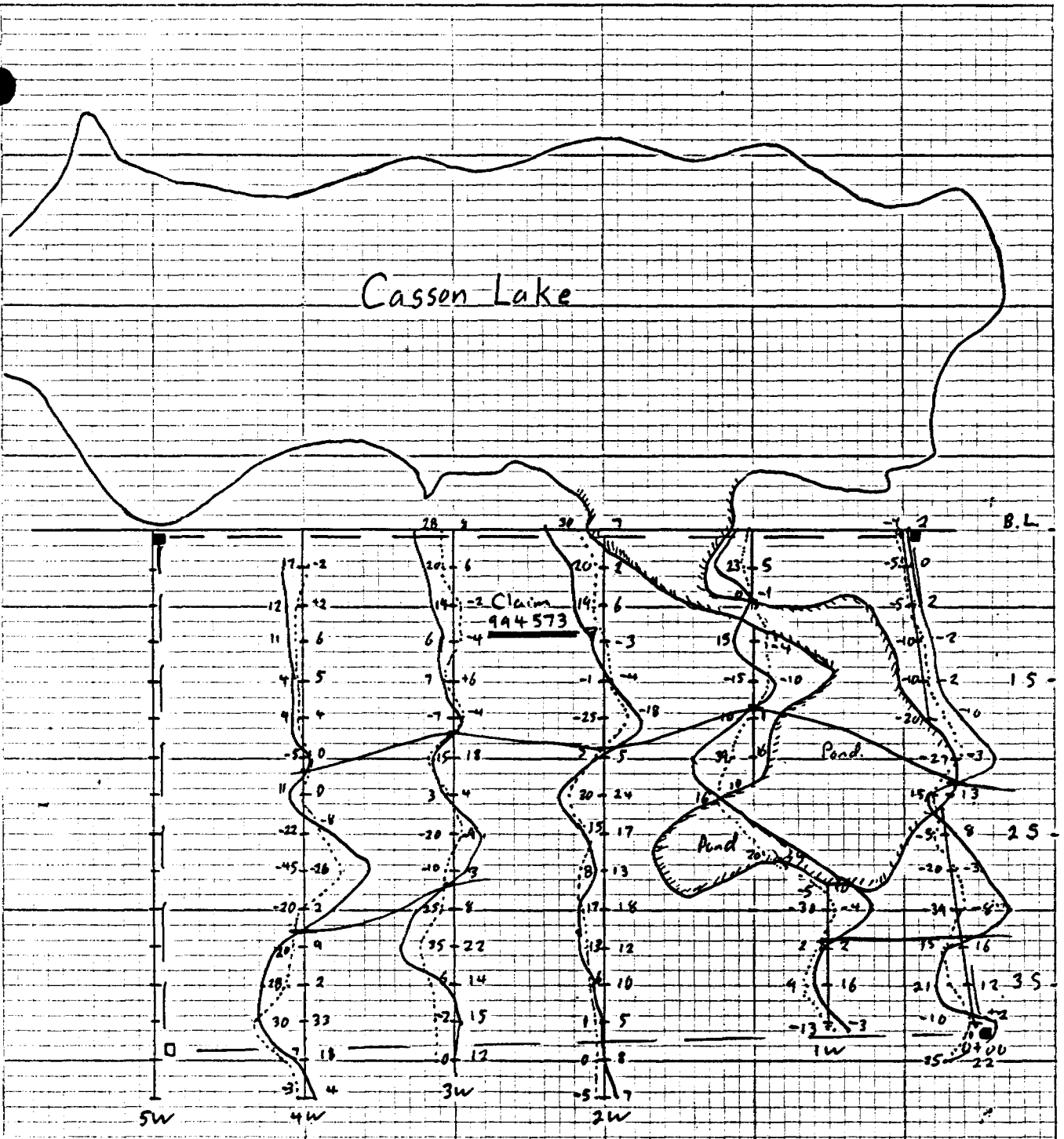
Roger Stringer
Property

Curtin Twp

MAG SURVEY

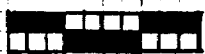
Instrument used
Fluxgate Mag Model MF-1

Plotted by: Frank Racicot
Date: Oct/88



Legend

- + -
- 12 + -10
- 2 -3
- 11 -5
- 18 -5
- Solid Line - Dotted Line
- In phase - Quadrature
- Profile Scale 1" = ± 100'
- Transmitter: Cutler, Maine
- Instrument: Geomax EM-16
- Readings: Facing North



Scale
1" = 100m.

Roger Stringer
Property

Curtin Twp

E.M. SURVEY

Plotted by: Frank Racicot
Date: Nov/88

NAME AND ADDRESS OF CLAIM HOLDER

Roger Stringer
374 Parchment Street
Espanola, Ontario
POP 1C0
(705) 869-4734

ASSESSMENT WORK SUBMITTED BY

Roger Stringer
374 Parchment Street
Espanola, Ontario
POP 1C0

STATEMENT OF QUALIFICATIONS

This is to certify that I, Frank Racicot, have obtained a B.Sc. in geology from Laurentian University in 1974 and have worked in the field in part or whole for 10 field seasons.

Signed Frank Racicot
Frank Racicot

Date: November 1988

MAP SYMBOLS

- Highway and Route No.
- Other Roads
- Trails
- Surveyed Lines
- Townships, Base Lines, Etc.
- Lot Lines
- Parcel Boundary
- Mining Claims, Etc.
- Utility Lines
- Railway and Right of Way
- Non-Perennial Stream
- Flooding or Flooding Rights
- Subdivision or Composite Plan
- Reservation
- Order in Council
- Cancelled
- Sand & Gravel
- Mines
- Marsh or Muskeg
- Traverse Monument

LEGEND

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	(Symbol)
SURFACE RIGHTS ONLY	(Symbol)
MINING RIGHTS ONLY	(Symbol)
LEASE SURFACE & MINING RIGHTS	(Symbol)
SURFACE RIGHTS ONLY	(Symbol)
MINING RIGHTS ONLY	(Symbol)
LICENCE OF OCCUPATION	(Symbol)
ORDER IN COUNCIL	(Symbol)
RESERVATION	(Symbol)
CANCELLED	(Symbol)
SAND & GRAVEL	(Symbol)

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO 1914 AND SURFACE RIGHTS IN ORIGINAL PATENTS BY THE PUBLIC LANDS ACT, 1879, CHAP. 100, SEC. 42, SUBSECTION 1.

AREAS WITHDRAWN FROM DISPOSITION

M.A.O. - MINING RIGHTS ONLY
 S.A.O. - SURFACE RIGHTS ONLY
 M.S. - MINING AND SURFACE RIGHTS

Order No. W-7787 1981-08-21
 Order No. W-7787 1981-08-21

SAND AND GRAVEL
 FILE - 18084

SCALE 1:50 000
 GRID ZONE 17

Order No. W-7787/NER 1981-08-21

DATE OF ISSUE
 AUG 17 1988
 SURVEY
 MINING RESOURCES OFFICE

TOWNSHIP
CURTIN
 M.N.R. ADMINISTRATIVE DISTRICT
ESPANOLA
 MINING DIVISION
SUBURRY
 LAND TITLES / REGISTRY DIVISION
SUBURRY

Ministry of Natural Resources
 Land Management Branch

Original Completion: DECEMBER 1984
 Revised: /

Inventory: **G-3005**

