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MINISTRY OF NORTHERN  
DEVELOPMENT AND MINES  
FEB 18 1991  
INCENTIVES OFFICE

PI OSPECTING REPORT  
MERRIT TOWNSHIP

PREPARED BY: I.O. IDIKA

File # OP 90-448

## INTRODUCTION

Prospecting, sampling and mapping activities were carried out over an area covering approximately 160 acres in Merrit Township, Sudbury Mining District. No claims are currently registered for any of the areas prospected. Interest in the area resulted from a 1934 result showing grades of between 0.01 to 3.45 oz/ton Au.

## LOCATION & ACCESS

The area is located about 6 kilometres south of Espanola in the Sudbury Mining Division and are in lot 1 concession 1 and concession 2, Merrit Township.

Access to the area's via highway 68 to the south west end of Loon lake and by boat along the east-west Loon-Cleveland lake chain.

## HISTORY

The area has been extensively prospected by individuals and companies since the early 1900's. This is evidenced by the old availability of records and a near abundance of old pits and trenches. It is reported (verbal communication) that gold was panned from the area.

## AREA GEOLOGY

The area is underlain by metasediments of the Bruce, Espanola and Serpent formations trending east-west with dips between vertical and steeply South. The sediments are intruded and locally brecciated by amphibolite dykes trending NW-SW. Quartz carbonate breccias with sulphides are found in several locations along what appears to be fault zones. Pyrite, chalcopyrite, arsenopyrite and pyrrhotite are the sulphide minerals distributed in the area.

## GEOLOGY & FIELD PROGRAM

The writer accompanied by helpers commenced work (prospecting, sampling & mapping) on July 23/90 through Nov. 9/90 on an intermittent basis. Control work was carried out by locating an old east-west base line approximately central through the area under study. No lines were cut, traverses along the said base line and north-south of the base line were carried out by pace/compass method. Geological observations, prospecting and sampling work were detailed from traverses. A total of 34 samples were taken but are not assayed to date.

Preliminary geological mapping of the area indicates a potential for gold as metasediments (Huronian Supergroup) intruded by diabase, amphibole and olivine were observed. Quartzite with serpentine were observed along the south shore of Cleveland lake and in this said area occurs a brecciated quartz-carbonate rock containing sulphite. The sulphites encountered include pyrite, arsenopyrite, chalcopyrite and minor pyrrhotite. Sulphite values range up to 10% (visual estimate) and are found mainly in the vicinity of old pits and trenches. Samples taken during the work period will be submitted for analysis during phase two of the project.

## RECOMMENDATION

The area requires more detailed close spaced prospecting and mapping, followed by detailed sampling and some geophysics (Mag & EM).

LOCATION MAP OF PROSPECTING PROJECT  
 SPAN 2000

CLEVELAND LAKE

PAT 21962

LEGEND

- 1. OLIVINE DIABASE
- 2. QUARTZITE
- 3. QUARTZ / SERPENT.

(X) #1 - SAMPLE LOCATION & OUTCROP  
 ~~~~~ PACE & COMPASS TRAVERSE LINE

(#1) out crop & sample

OLD BASELINE

LINE 1  
 TRAVERSE LINE

SWAMPY

SWAMPY

IDKVA PROSPECTING PROJECT  
 OR 90-448

MEADIT TWP LOT 1 CONC I  
 SHERMAN MINING DIVISION

SCALE 1:2000

DRAWN BY I.O. IDKVA  
 DATE MARCH 5, 1991

