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MINING LANDS SECTION

GEOLOGICAL & RADIOMETRIC SURVEYS
HINTON CLAIM L598586

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F.R. Ploeger, B.Sc. December 21, 1981

Location & Access:

The claim is situated approximately 4.5 miles south of the town of Larder Lake in North-eastern Ontario. It may be reached via a series of logging roads extending westwards from Highway 624 across a reforested area.

Property:

The property consists of 1 unpatented mining claim, L598586, held by D.M. Hinton, 16 Plaza Square, Belleville, Ontario.

Previous Work:

Hearst Township was mapped in detail by J.E. Thomson for the Ontario Department of Mines in 1945-46. However, little assessment work has been recorded for the area covered by the Hinton claim.

Present Work:

The geological and radiometric surveys were conducted on September 19 and 20, 1981.

General Geology:

The rocks of Hearst Township represent a diverse mixture of lithologies which occurs between two major volcanic sequences within the Abitibi Belt. The Volcanic cycle to the south shows a complete differentiation trend from komatiitic, to tholeiitic, to calc-alkalic, culminating with the Skead pyroclastics and associated sediments. The overlying volcanic cycle to the north shows this same type of compositional differentiation ending with the Blake River calc-alkalic group. Wedged between two major volcanic suites is a later sequence of sedimentary and alkalic intrusive and extrusive rocks which form the Timiskaming Group. Cobalt Group sediments occur as north-south-trending "fingers" that overlie parts of all the other rock suites.

A major esker, the Munro esker, as well as many smaller eskers, kames, tills and glaciolacustrine and recent deposits obscure much of the bedrock of the entire area.

Property Geology:

The property is underlain by rocks of the Larder Lake Group. These consist mainly of sequences of interbedded greywackes and tuffs with occasional coarser grained units. The bedding direction ranges from about 120° in the south part of the claim to 180° near the north boundary. Dips are subvertical to steeply north, with tops overturned and facing south.

The sediments are made up of a number of lithologies. The dominant component is massive to well-bedded greywacke which is often interbedded with a sericitic argillite. In places the greywacke becomes gritty to pebbly and the argillite graphitic. The graphitic argillite contains narrow pyritic lenses and possible sphalerite mineralization. Also interbedded with the sediments are fine felsic to mafic tuffs, cherty tuffs, felsic crystal and lapilli tuff, and felsic agglomerates.

An east-west trending diorite or lamprophyre dike cuts the sediments in the south-west corner of the claim.

Minor quartz-carbonate veining is evident in several outcrops in the north-central portion of the claim. Minor disseminated pyrite and rare chalcopyrite are associated with these veins.

Rodiometric Survey:

The present radiometric survey was conducted using a McPhar TV lA spectrometer. Readings totalling 75 were taken at 100 foot intervals along pace and compass traverse lines spaced at approximately 400 feet. Control was provided by 1/4 mile and 400 foot to the inch air photographs. The readings indicate the total count as taken from the Tl scale.

The survey did not uncover any radiometrically anomalous areas.

Conclusion:

The claim is underlain mainly by greywackes and tuffs of the Larder Lake Group. Minor pyrite and rare chalcopyrite is associated with quartz-carbonate veins cutting this sequence.

Further surface stripping and trenching with assaying is warranted to determine the extent and significance of the pyrite mineralization.

F.R. Ploeger, Geologist

December 21, 1981

QUALIFICATION

- I, Frank Rainer Ploeger, reside in the Province of Ontario at 277 Ninth Avenue in Larder Lake;
- That I graduated with a B.Sc. degree from the Geological Engineering Programme at Queen's University in 1973;
- 3. That I was employed by the Ontario Geological Survey,

 Ministry of Natural Resources for 7 years

 following graduation, 6 of those years in

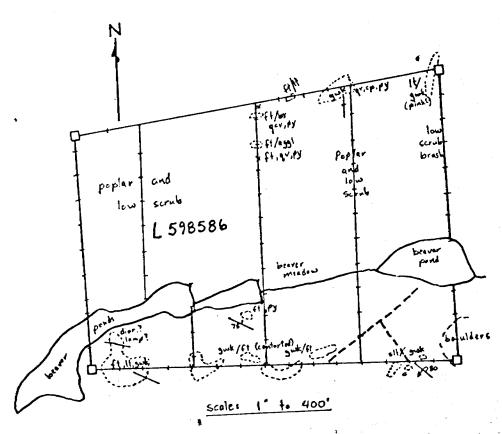
 Kirkland Lake;
- 4. That this report is based on a survey conducted by the writer on the property.

Signed:

F.R. P��øeger

December 21, 1981

GEOLOGICAL SURVEY HINTON CLAIM L598586



LEGEND

dior	diorite lamprophyre
ft bx aggl gwk sit	folsic tuff lapilli tuff breccia agglomerate greywacke siltstone

SYMBOLS

bedding with tops

claim post/lines

winter roads

traverse lines/stations

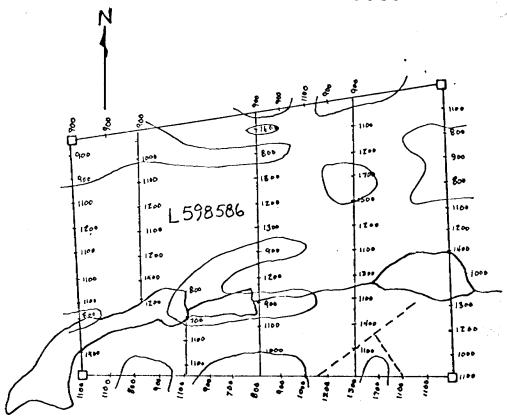
quarte veins

quarte carbonate veins

pyrite

cp chalcopyrite

RADIOMETRIC SURVEY HINTON CLAIM L598586



INSTRUMENT: McPhar TV-1A

CONTOUR INTERVAL: 500 Y

SCALE: 1 inch to 400 feet

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Ministry of Natural Resources

Geotechnical Report Approval

File 2.	4551

Mining Lands Co	omments			
To: Geophysics	Mr Barlew.			
Comments				
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Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
Kirkland Lake, Ontario P2N 1A2

Dear Sir:

We have received reports and maps for a Geological and Radiometric Survey submitted under Special Provisions (credit for Performance and Coverage) on mining claim L 598585 in the Township of Hearst.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1316

J. Skura/amc

cc: Frank R. Ploeger
Box 104
Larder Lake, Ontario