

Copy to Mining Lands Branch

(1 COPY TO MNG LANDS BRANCH)



41J01SE0051 FRECHETTE15B1 FRECHETTE

010

RECEIVED
JUL 6 1953
GEOLOGICAL BRANCH
DEPARTMENT OF MINES

REPORT
on the
R.R. TROUGH SHOWING

HOTNAM ISLAND
Mc Bean Channel, Georgian Bay
District of Manitowish

by

E. M. Abraham
Ontario Department of Mines
Toronto

22.
COPY GIVEN
TO MNS LANDS
BRANCH. ORIGINAL
TO MR. ABRAHAM

Copy given to Mr. J. H. ... July 2, 1953
Original to Mr. Abraham

REPORT ON THE R.R. TOUGH SHOWING, HOTHAM ISLAND, McBEAN CHANNEL,
GEORGIAN BAY, DISTRICT OF MANITOULIN, by E.M. ABRAHAM

INTRODUCTION:

A visit was made to Hotham Island on Wednesday June 17, 1953, in company with Messrs. R.R. Tough and Thompson. The purpose of the visit was to examine mineral-bearing veins uncovered by Mr. Tough, with a view to permitting claims to be staked. Hotham Island is reserved by the Department of Lands and Forests and at the time of the examination was not open to staking.

Mr. Tough had two separate showings, and claims to know of several others but owing to inclement weather has not had sufficient time to re-locate and open them up. It is his intention to have about 18 claims staked.

LOCATION AND ACCESS:

Hotham Island is located in McBean Channel of Georgian Bay. It is approximately 9 miles by boat from Spanish station on the C.P.R. and the trip one way takes about 1 hour and twenty minutes. It lies just northeast of Frechette Island where a copper-gold discovery was made.

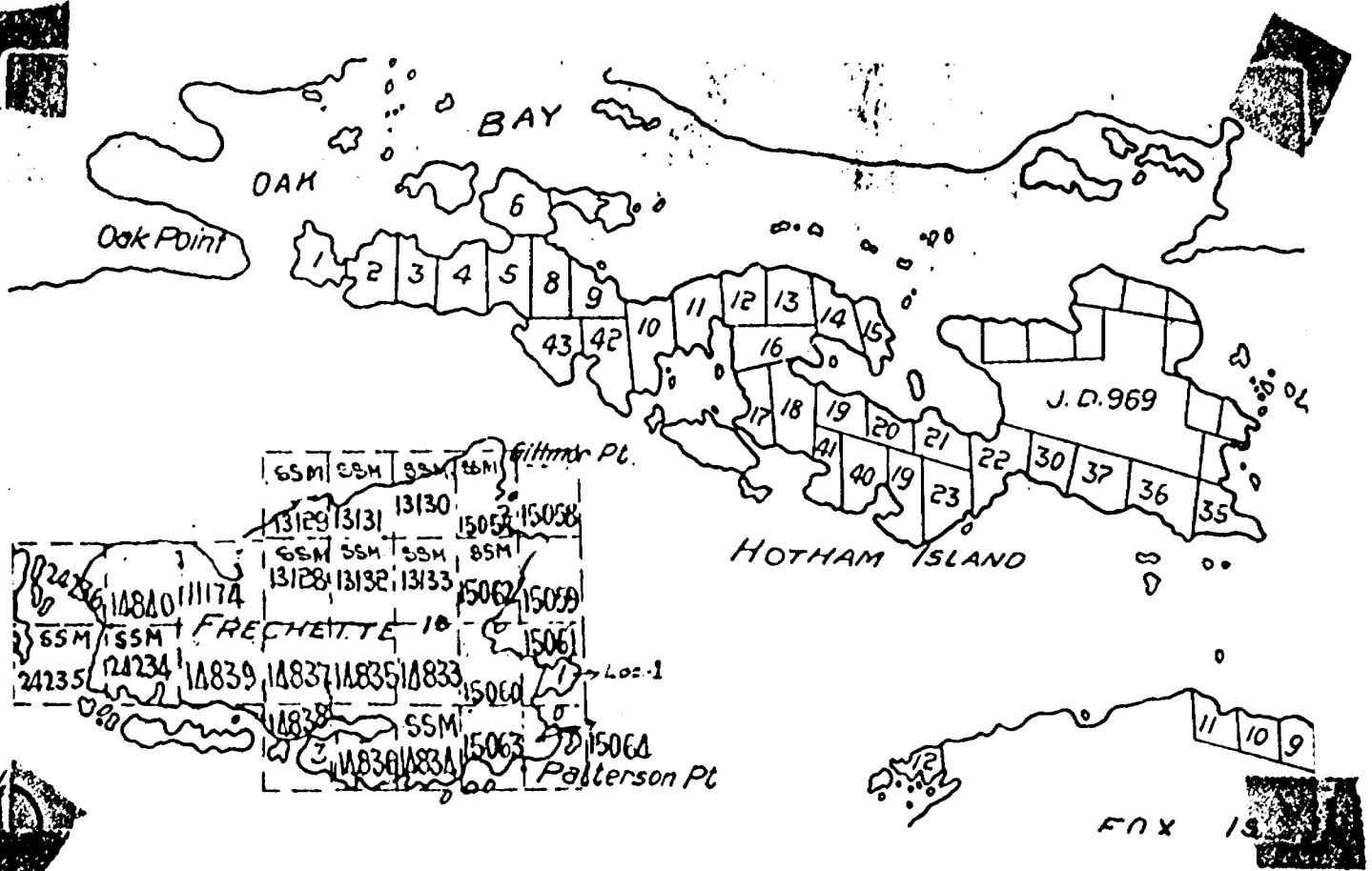
LOCAL GEOLOGY:

The east end of Hotham Island, in the vicinity of the two showings examined, is underlain by a basic intrusive, presumably diabase, and a little quartzite. The diabase-quartzite contact strikes at about 120° and is vertical. The diabase is medium-grained and massive. At the extreme east end of the island it weathers to yield a pitted surface. The quartzite is fairly massive, white-weathering and vitreous. Quartz veins are found in both the diabase and quartzite.

1953
JUL 8 1953
MANITOULIN

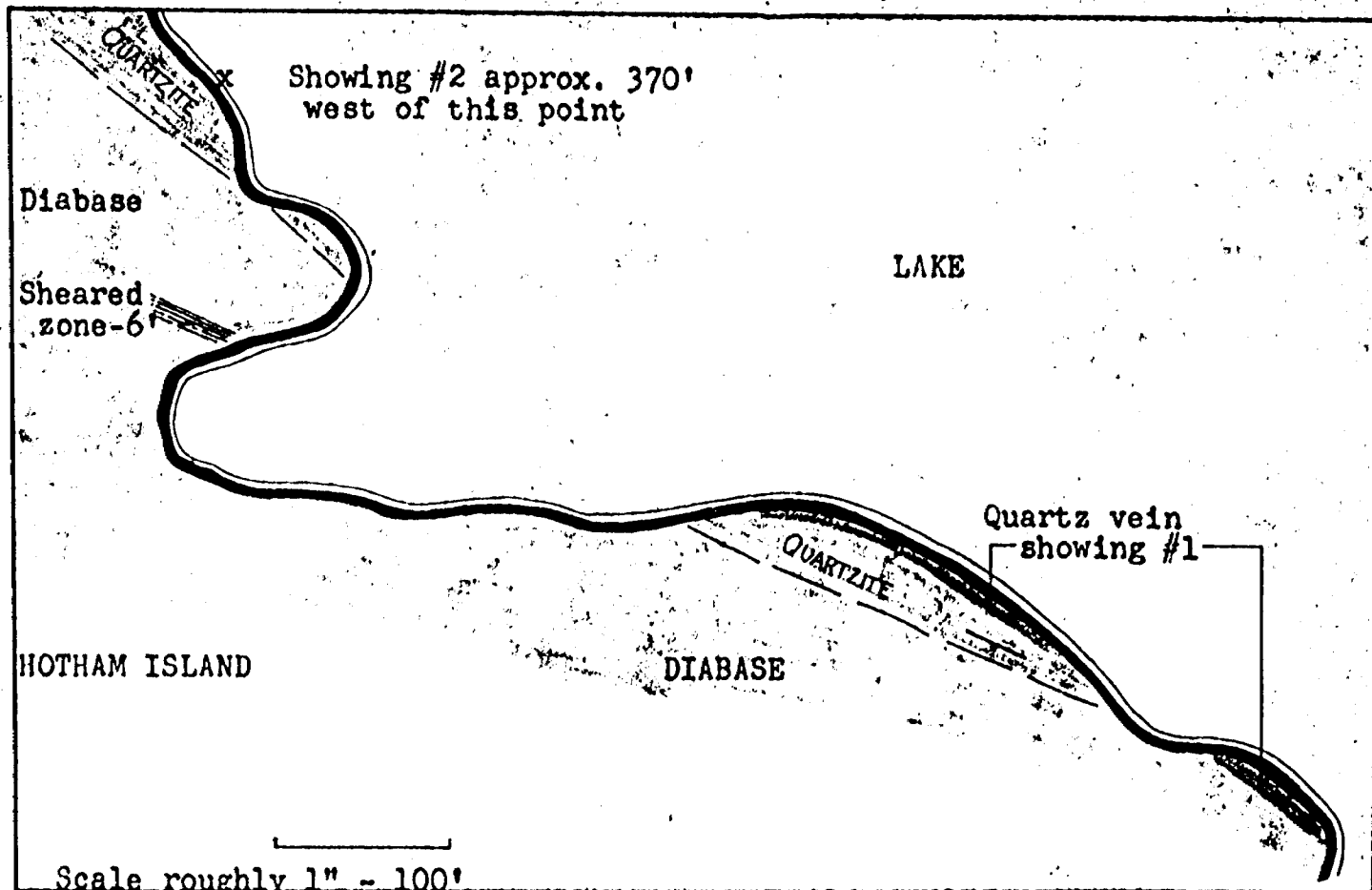
MINERAL OCCURRENCES:

(1) Location of main showings-



Showing #1 is located along the shore in the extreme southeast part of the island.

Showing #2 is located about 370 feet west of the shore line.



Crude sketch of R.R.Tough's showing #1 at east end of Hotham Island

(2) Mineralization -

Showing #1 is located in a steeply dipping sheared zone about 5 feet wide and striking at 130° . The mineralization occurs in a quartz vein, carrying some carbonate, within the sheared zone. The vein dips steeply to the south. The vein is exposed in quartzite along the shore for a distance of about 200 feet to the southeast. It disappears beneath the water and is picked up again about 150 feet to the southeast. Here the vein is in diabase and is exposed for about 50 feet. Once again it disappears under the water. The vein contains masses of sheared country rock, i.e. diabase and quartzite. It varies from 2 to 5 feet in width, and may consist of a number of somewhat parallel stringers or one single vein. The quartz itself varies from white to bluish and is somewhat fractured. The metallic mineral is an unidentified fairly hard silvery-grey substance with a grey streak. Where crystal faces are developed a cubic form is suggested. The metallic mineral occurs in irregular blobs and minute fracture fillings. This mineral is found in only certain sections of the vein and may be arsenopyrite.

Showing #2 is in a quartz vein varying from a few inches to 2 feet in width and striking about 95° . The mineralization is chalcopyrite and pyrite. The country rock is diabase, and adjacent to the vein it is carbonatized. Carbonate also occurs in the quartz vein. This vein lies

4

about 400 feet west of the #1 vein and was traced westward for about 500 feet. The vein was by no means continuous, but indications of its presence were in evidence along the strike. Much of the vein along the strike was covered by overburden but fragments of quartz were noted in several places.

The sulphides occur in small fracture fillings and in irregular blobs in a bluish-white vuggy quartz.

CONCLUSIONS:

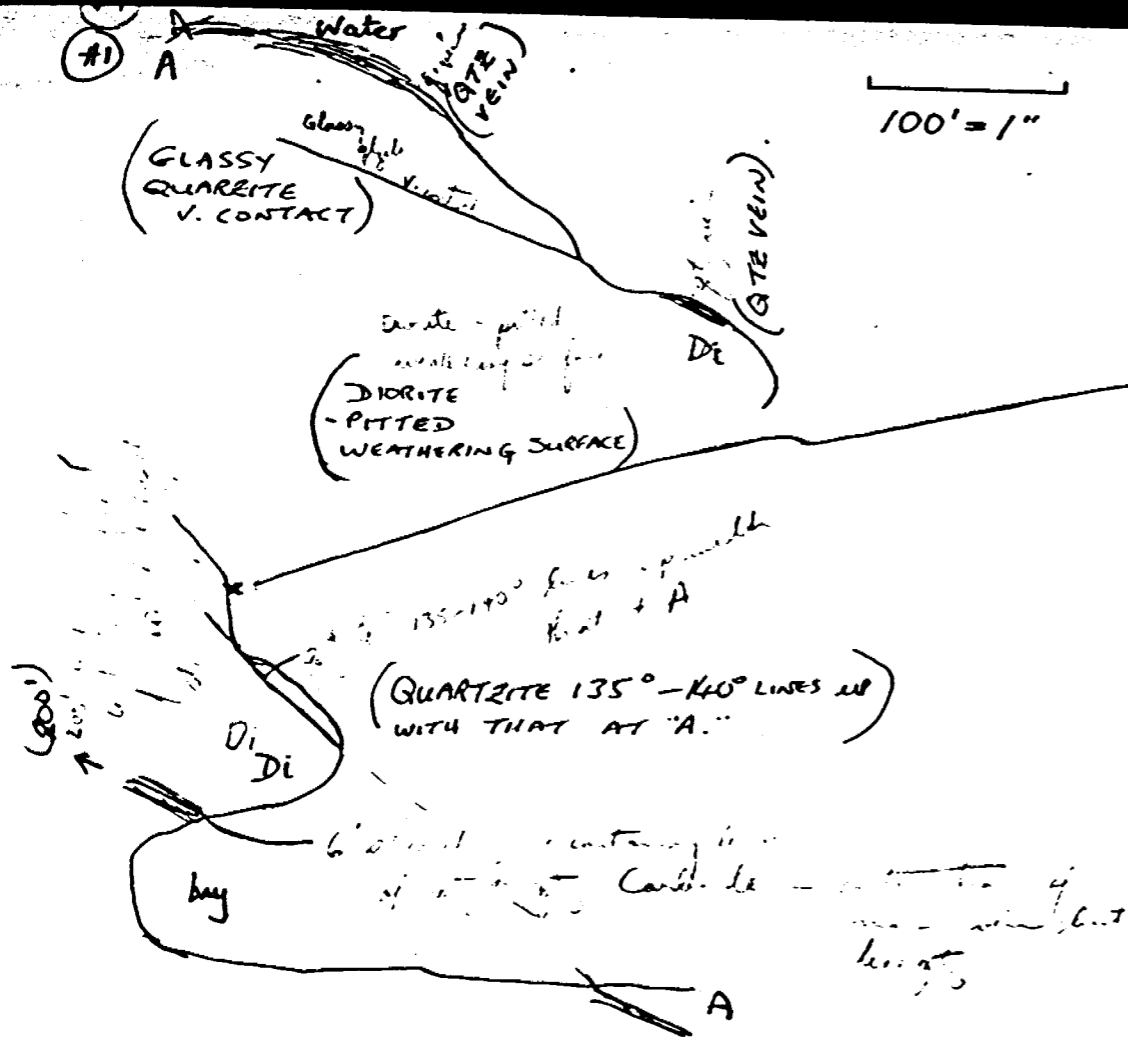
Grab samples for assay were taken from showings 1 and 2. The samples were taken where the veins were definitely in place and not from boulders or fragments lying in the vicinity of the veins.

These samples yielded the following results:

Showing #1

Showing #2

In conclusion, the writer sees no reason why Mr. R.R. Tough should not be permitted to stake the desired number of claims.



SAMPLES TAKEN 370'
 BACK AT 95° FROM THIS POINT.
 VEIN TRACED W FOR 330'
 + E FOR 190' AT BEARING
 OF 95°

Samples taken
 370' back at 95°
 from this point
 Vein traced W for 330'
 & E for 190' at bearing
 of 95°

(6' SHEARED ZONE CONTAINING
 LENSES OF QTE TO QTE.
 CARBONATE - CONTAMINATION
 OF MAIN VEIN BUT LESS QTE.)

Sheared zone contains quartz?
 (SHEARED ZONE TRAVERSES QUARTZITE?)



ONTARIO
DEPARTMENT OF MINES



41J01SE0051 FRECHETTE15B1 FRECHETTE

900

PARLIAMENT BUILDINGS
TORONTO 2 ONTARIO

MEMORANDUM FOR: Dr. M. E. Hurst,
Provincial Geologist,
Department of Mines.

Mr. R. R. Tough, c/o Mr. George Tough, R.R. #1, Bracebridge, Ontario, who has claims on Frechette Island near Spanish, Ontario, has made a discovery on the adjoining island of Hotham. He has had the samples assayed by Moddle and got values in gold and copper. Hotham Island, although Crown property, has been subdivided for summer cottage sites and is not open for staking. Before we can ask the Lands and Forests Department to consent to this island being staked, we have to produce evidence of the discovery of valuable mineral in place. I understand Mr. Earl Abraham is taking a field party into that area sometime within the next two weeks. It would therefore be appreciated if you could arrange to have Mr. Abraham make an examination and report.

Mr. Tough requests that he be notified four or five days in advance of the examination so that he can be on the job. When Mr. Abraham reaches Spanish, if he will contact Mr. William Webb, who owns and runs the Lake Huron Hotel there, he will see that a boat is provided to take him out to the island.

Whiteprint showing the island is attached.

JFM/MG

J. F. McFarland,
Chief, Mining Lands Branch.

May 13th, 1953.

TOUGH SHOWING

17

HOTHAM ISLAND

No. Claims ~~18 on East prospect to be~~
~~staked~~
Locations Access - lot, con.

General Geology

Local Geology

Mineral Occurrence

Personnel - R. R. Tough, J. D. Thompson

Character & Extent of deposit - gneiss
strata
mineralogy? mineralogy

Dimensions & locations of pit workings - sketch

Potentialities

Location - Hotham Island.

1 hr 20 min by boat from
Springs, distance 9 miles?
Mr. Tough's boat was used.

Mr. Tough was hampered by bad weather &
didn't have a chance to locate
all the veins.

TOUGH SHOWING

Boat on rocks from 11:30 → 5:30
didn't start showing

JUNE 17/53

Showing ①

Sliply dipping sheared zone
striking about 135° containing a tiny vein
about 5' wide showing distinctly to the S.
Vein exposed along shore from rock outcrop on
W side of the water cut.

The vein contains within it sections of
sheared material in dense & more
massive strata.

A strongly lustrous metallic mineral
was found in places along the vein.
The vein is split up into 2 or 3
strips over a length of 5' or more. Strata
microscopic in scale when exposed.

Other veins found place to north.

At E end it is a dense

Vein contains calcite the gray vein a
pitted appearance

Vein about 300' long where exposed.

Not too much done on this. Needs
blasting & getting up. Vein nearly
in place.

C. Ross may be labrador &
not double

Showing 2

2' of B was striking 95° carrying
5' in py & pyrite

Calcite is dense calcite along vein
Vein also carries calcite

Trend out on reef for 330' mostly
off in a narrow sheared zone
the dip is 7E to 140° at which point is a Di-
oxide contact.
Vein weathered & smaller along strike
M of 2'

Other showings
East
(QUARTZITE MASSIVE & BLuish → REDDISH)

Other showings
(OTHER SHOWINGS NOT OPENED UP)



OFFICE OF THE
PROVINCIAL ASSAYER

ONTARIO
DEPARTMENT OF MINES

PARLIAMENT BUILDINGS
TORONTO.2. ONTARIO

July 7th, 1953.

Dr. E. M. Abraham,
Iron Bridge, Ont.

Dear Abe,-

Your assays are enclosed. Unfortunately ^{the} note at the bottom regarding identification of the silvery mineral was not noticed until the samples had been pulverized. If you should have another piece of this I would be glad to have a look at it.

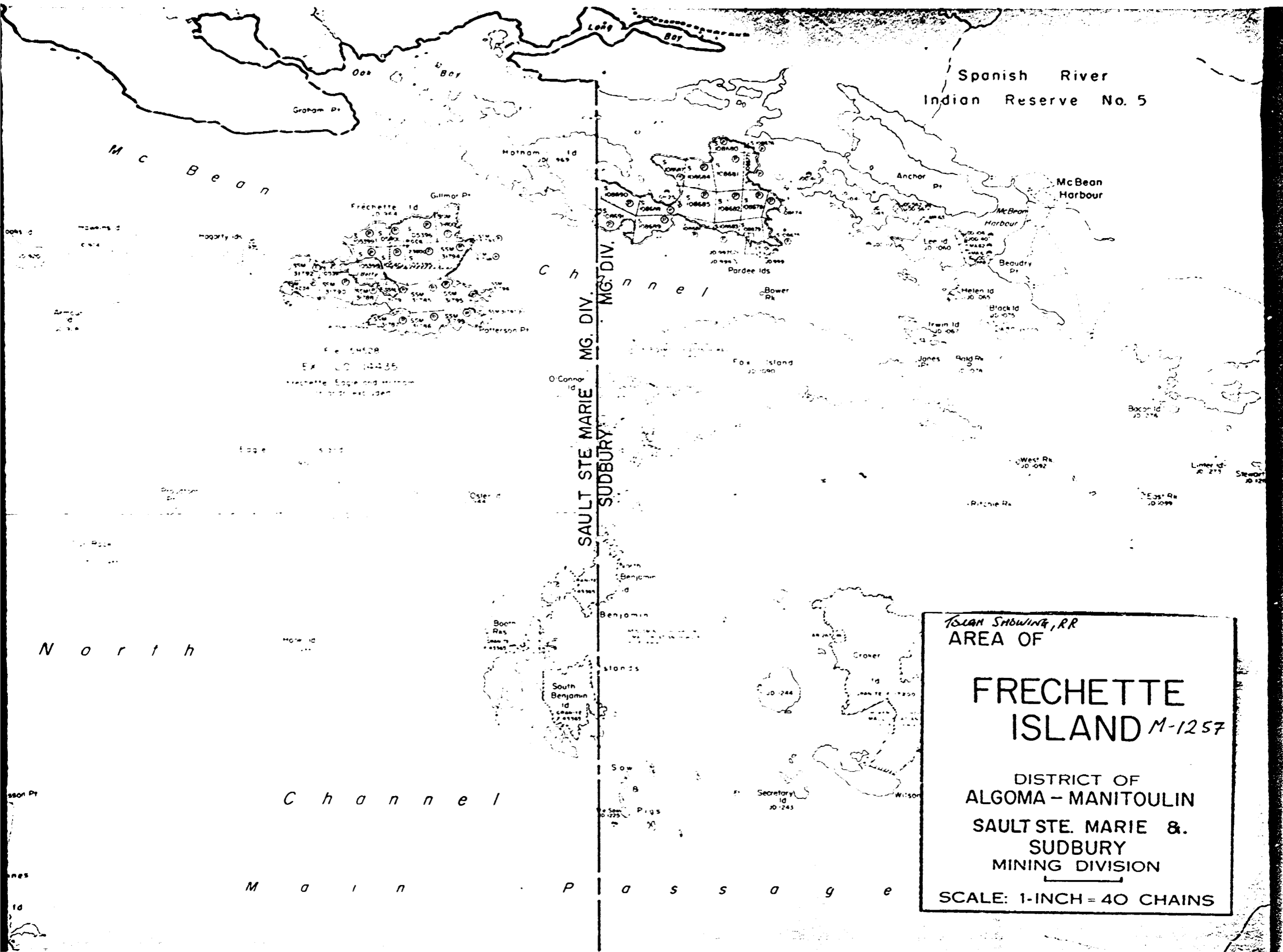
Thanks for the "invitation" to Iron Bridge country. I will be right up as soon as the work is finished here.

Yours very truly,

A handwritten signature in cursive script, appearing to read "D.A. Moddle".

D.A. Moddle
Provincial Assayer

DAM/R
Encl.



ISLAND SHOWING, R.R.
 AREA OF
FRECHETTE ISLAND M-1257
 DISTRICT OF
 ALGOMA - MANITOULIN
 SAULT STE. MARIE &
 SUDBURY
 MINING DIVISION
 SCALE: 1-INCH = 40 CHAINS

N o r t h

C h a n n e l

M a i n P a s s a g e

Spanish River
Indian Reserve No. 5

McBean
Harbour

MG. DIV.
SAULT STE MARIE
SUDBURY