N.T.S. #42-A-1

2.1814



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PROJECTS UNIT

Report on
Geological Survey
Potter Claim L-401658
Township of Teck
Swastika Area
Larder Lake Mining Division

May 28, 1975
Timmins, Ontario

David V. Mullen
Noranda Exploration Co. Ltd.

This report on the geological survey is submitted under the Special Provision dated October 16, 1967 for credit of 20 assessment work days per claim.

POTTER CLAIM L-401658

INTRODUCTION:

The Potter Property consists of one unpatented mining claim numbered L-401658. It is located in the southwest corner of Teck Twp. on the Teck Township - Otto Township Boundary.

The claim is easily accessable by Highway 66, which passes through the south-east corner of the property approximately ½ mile west of the Village of Swastika.

TOPOGRAPHY:

Much of this property is characterized by high rocky ground. Some alder swamp is found to the south and west. Most of the outcrops are covered with moss and lichens. Vegetation consists of spruce, poplar and tag alders.

PREVIOUS WORK:

The Potter claim has been worked previously evidenced by extensive trenching observed during the survey.

LINECUTTING:

One Baseline was cut from a point approximately 230 feet north of #2 post of Mining Claim L-401658. It was cut for 1400 feet on an azimuth of 86°. Traverse lines were cut normal to the baseline at 200 foot intervals. The baseline and traverse lines were all chained and picketed at 100 foot intervals. In all, approximately 2.2 miles of line were cut, chained and picketed.

GENERAL GEOLOGY:

The property consists entirely of rocks of Archean age; predominantly sediments with minor intrusives.

The sediments are of 2 types; 1) a relatively fine grained tuffaceous sediment overlain by 2) coarse chert-jasper conglomerate.

The tuffaceous sediment is characterized by occasional

30 - 60 cm finely laminated tuffaceous beds interbedded with a coarser sediment. Pebbly patches were also seen. Flecks of red jasper and some disseminated pyrite were found. The bedding, although mainly poorly defined, strikes 100 - 110° with vertical dips.

The conglomerate is a definitely coarser unit. It contains sub rounded to sub angular clasts of chert, quartz, black chert and jasper up to 5 cm in diameter in a medium grained groundmass. Pyrite and occasionally fuchsite were found within this unit. Two short shear zones were also found, striking approximately east-west.

Intruding into these sediments are two quartz porphyries. They are not well defined and no sharp contacts were observed. The porphyries are highly altered to sericite and some carbonate.

All Post-Archean rocks are of Pleistocene age. Large "Cobalt conglomerate" erratics, ground moraine, and sand lie unconformably on the Archean basement.

MINERALIZATION:

Major mineralization seems to be confined to the conglomerate, close to an intrusive. A major gossan area on the baseline was sampled at 2 places with the following results:

#1 (4501) nil Au., .03 Ag.
#2 (4502) nil Au., .04 Ag.

The gossan area consists of fuchsite alteration and is limonite stained, probably due to weathered pyrite or carbonate. Quartz stringers with pyrite were observed. In a short shear zone within the porphyry at the baseline, a grab sample gave the following results:
#4 (4505) nil Au., .08 Ag.

Near the west porphyry contact another sample was taken in rusty conglomerate. Results for #3 (4503) are nil Au., .04 Ag.

RECOMMENDATIONS:

No further work is warranted at this time. Results obtained are not encouraging. Only diamond drilling could further the mineral potential of this property.

David V. Mullen
Noranda Exploration Co. Ltd.

File 2.1814

Ontario



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TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) Geological

Township or Area Teck Township

Claim Holder(s) George Potter

Survey Company Noranda Exploration Co. Ltd.

Author of Report D. V. Mullen

Address of Author Box 1205, Timmins, Ontario

Covering Dates of Survey May 20 - May 28, 1975
(linecutting to office)

Total Miles of Line Cut 2.2 miles

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
--Electromagnetic	
--Magnetometer	
--Radiometric	
--Other	40
Geological	20
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: May 20, 1975 SIGNATURE: D. V. Mullen
Author of Report or Agent

L.D.

Res. Geol. _____ Qualifications New - On this report.

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

L 401658
(prefix) (number)

There is no other survey submitted in 40 day assessment credits allowed for linecutting

TOTAL CLAIMS 1

If space insufficient, attach list

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy -- Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

_____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

_____

Base station value and location _____

_____

Elevation accuracy _____

INDUCED POLARIZATION
RESISTIVITY

Instrument _____

Method ☐ Time Domain ☐ Frequency Domain

Parameters -- On time _____ Frequency _____

-- Off time _____ Range _____

-- Delay time _____

-- Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

Bernhardt Twp.

Grenfell Twp.

Lebel Twp.

Otto Twp.

THE TOWNSHIP OF 2.1814

TECK

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH = 20 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

Area shown thus for Slime disposal

Mining Claims L 2728 & 1535 Shown thus
Withdrawn from Staking under Sec 39 (b) of the Mining Act File: 67398

Mining Rights for Claim L 5779 Subject to Sec 36 of the Mining Act

- MINING LANDS -
DATE OF ISSUE
JUN - 5 1975
MINISTRY OF NATURAL RESOURCES

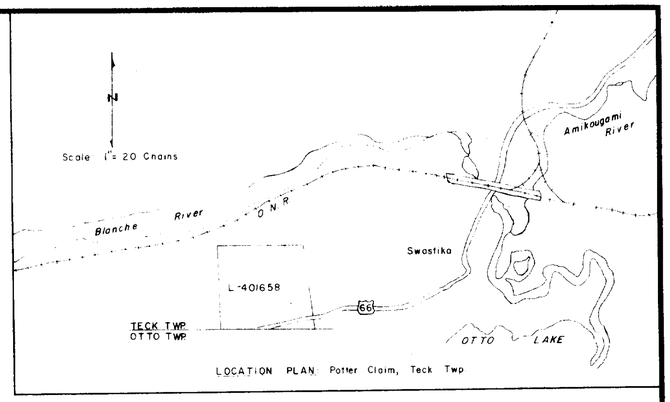
PLAN NO.- M. 392

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

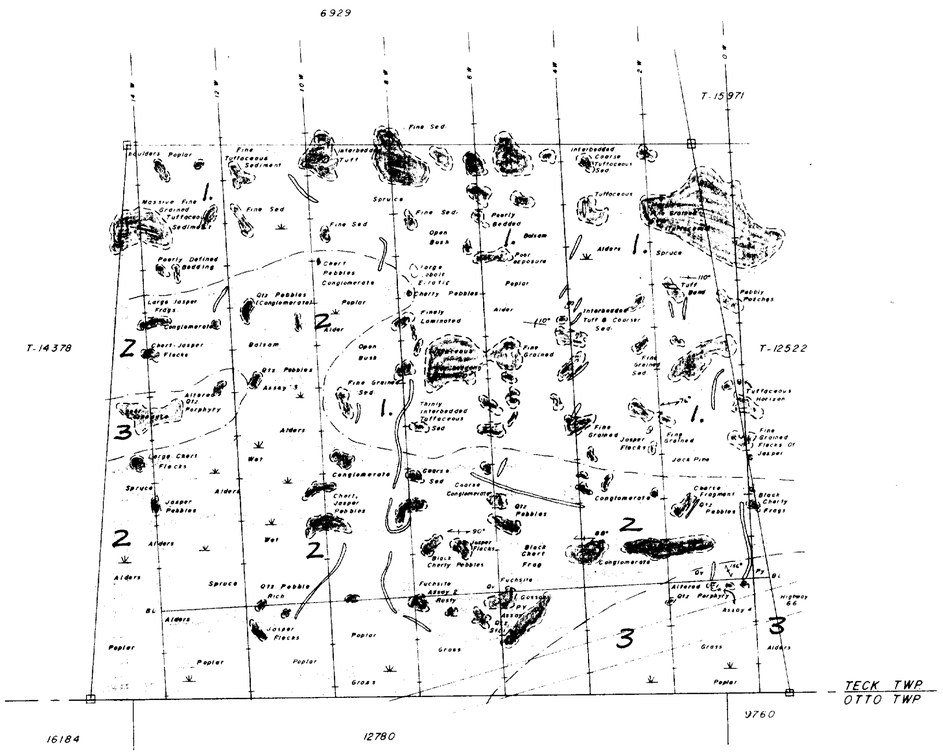
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J.P.v.K.



LOCATION PLAN Potter Claim, Teck Twp



LEGEND

3 Quartz Porphyry

2 Chert - Jasper Conglomerate

1 Tuffaceous Sediment

SYMBOLS

- Trench
- Shear
- Outcrop
- Geologic Contact (Assumed)
- Assay Sample Site
- Swamp

REVISED

POTTER CLAIM No. L-401658

TECK TOWNSHIP
LARDER LAKE MINING DIVISION

PROJECT:

PROJ. Nº

N.T.S. 42-A-1

DWG. Nº

SURVEYED BY: D MULLEN DATE: MAY, 1975

DRAWN BY: G SKRECKY SCALE: 1" = 200'

NORANDA EXPLORATION CO. LTD.

OFFICE: TIMMINS, ONTARIO

42A01SE0042 2.1814 TECK

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