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2021 Work Assessment Report

"Mann-Duff Property"

Claim 564974 (Cell Unit Identification 42A14H269)

Mann & Duff Townships, District of Cochrane Porcupine Mining Division

NTS 42A14SE

Prepared By:

Ed Shynkorenko Prospector License M-25405

MAAP No. 5932

June 28th, 2021

Forward:

This report builds upon what has been previously documented of a portion of mining land situated partially within Mann and Duff Townships. It is believed that this area may contain commercially viable amounts of platinum, palladium, and nickel.

The "Mann-Duff Property", herein referred to as the subject property, is comprised of single unit mining claim 564974 (cell unit identification 42A14H269). The property is situated mostly within the West ½ of the South ½ of Lot 12, Concession 5, Mann Township, District of Cochrane Ontario, with the remaining portion of the claim situated in adjoining un-subdivided Duff Township (the subdivision of Duff Township into Lots and Concessions was annulled circa 1974). Both townships are within the Porcupine Mining Division. The said claim was recorded on November 29 of 2019 by the author Ed Shynkorenko (Lic. M-25405), and is part of a larger block of contiguous claims partially owned by the author.

The author is also the registered "agent" with all permissions granted for the said claim.

A portion of claim 564974 is subject to a surface-rights-only Withdrawal Order, being W-P-04/08. During the month of December 2020 the offices of the Mining Recorder and the Geo Assessment Unit confirmed that grass root prospecting and mapping of the mineral potential in the withdrawn area of the claim could still legally be conducted, and that subsequent work reports submitted would be accepted for approval.

The field efforts detailed in this document, being hand sampling and the mapping, occurred on May 9th, 2021 and were performed by Ed Shynkorenko; License M-25405 / Mining Act Awareness Program (MAAP) Verification Number 5932. Fellow prospectors, and co-holders, Peter Hermeston, (Lic. 1003623 / MAAP No.5931) and Jason Jurynec (Lic. 2001215 / MAAP No.6042) assisted. A total of three man-days were expended in field.

Each man accessed the property via his own vehicle, and each traversed the claim separately given the Covid 19 situation. There were no stops during traveling and no contact with other people, including amongst each other.

This report was prepared by Ed Shynkorenko. Stations quoted within the text, and shown on the work compilation plan, correspond to the assayed sample number. All required illustrations, maps, sample location photos and pertinent receipts are contained separately within the Appendices of this document and/or submitted electronically in pdf format.

Appendices D and F of this report were submitted to the Geo-Assessment Unit as separate pdf files due their size.

Expenditure rates for work, transportation, etc. used were previously set by the provincial government or derived from industry standards. These expenditures are further explained in Appendix G.

This report acknowledges previous assessment reports filed by others.

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^{*} Appendix D of this report, being Map 2205 Timmins,-Kirkland Lake Map Sheet Geological Compilation Series, Cochrane-Sudbury and Timiskaming Districts, was submitted to the Ontario Geo-Assessment Office separately in expandable pdf format. This particular map is common to other assessment report submissions and also displays other properties currently held by the author.

Introduction/History:

The subject property is located partially within the eastern portion of Duff Township, and mostly within the western portion of Mann Township, District of Cochrane Ontario, and has been known to host a potential for platinum, palladium, and nickel. Over the years previous claims, as well as neighboring claims, have produced very favourable platinum, palladium, and nickel values from past drilling and channel cut sampling. Moreover, the subject property shares common conductors and other geological attributes with that of neighboring properties.

Based upon an online search of Ministry of Energy, Northern Development & Mines (MEND&M) files, over the decades numerous efforts have been made towards ascertaining the area's overall mineral potential. The following is a very brief chronology of the numerous exploration activities that occurred on, or near, the subject property. This chronology does in no way capture all the past activities or exploration programs that were undertaken. However, it does illustrate the potential of the subject property by drawing from the work performed on nearby mining lands (past and present).

From 1947 to 1948 P. Zevely conducted ground geophysics, prospecting, trenching and mapping, along with 28 drill holes amounting to 6000 metres total. It was reported that peridotite samples collected consistently assayed at 0.2% nickel . Further sampling conducted in 1948 reportedly produced values of 1.84% & 6.62% Cu, 3.67% Ni, 0.40 oz/t Ag, 0.05 oz/t Pt, and 0.15 oz/t Pd.

In the 1960's Mann and Duff townships, and the general locale overall, began gaining more exploratory interest as a result of the development of the Texas Gulf discovery in nearby Kidd Township. Inco had drilled several hundred metres north of the subject property intersecting peridotite, gabbro, and graphite.

Upon undertaking VEM and ground magnetometer surveys, Cromarty Exploration Ltd. also conducted drilling nearby encountering acidic to basic tuffs with graphite and pyrite.

In 1973, on a group of claims southeast of the subject property, Holmer Gold Mines completed VEM surveys and drilled to test one of the EM anomalies.

During the mid to late 1970's Arnoco Canada drilled several holes near the Cromarty location encountering approximately 60 metres of overburden covering graphitic sediment and greywacke, along with a considerable amount of pyrite to suggest the presence of a significant conductor. During this period the general area of the subject property had also seen drilling programs undertaken by both Noranda and the Shell Oil Co.

In 1980 the Ontario Geological Survey (O.G.S.) published a preliminary map (P755) of Mann Township and the subject property.

Introduction/History continued...

In 1988 the O.G.S. completed an airborne geophysical survey over the Timmins area which included both Mann and Duff Townships. The survey delineated significant magnetic features extending over a 40 km strike.

From 1990-1998, L. Hill held numerous claims in Mann Township, including what is now the subject property. Seven drill holes were established totalling 788 metres in an attempt to ascertain the platinum group elements. One core sample returned 522 ppb PGE over 0.91 m.

In 2001 geological mapping and geophysical surveys were undertaken along the nearby Frederick House River for Tres-Or Resources and its partner SNL Enterprises, who both had acquired an interest in the L. Hill property (referred to as the "Mann Project"). Sampling of nine historic diamond drill holes was carried out by T. Keast. Additional geophysical surveys were also undertaken by Geoserve Canada.

In late 2002, the OGS made available the results of a MegaTEM survey that was flown over a portion of the Abitibi sub-province north of Timmins, Ontario. Over the next 3 years Inco Technical Services Limited undertook geophysical work on a nearby staked claim in Duff Township situated northwest of the subject property. Inco later reported the presence of strong possible nickel conductors, but due to excessive overburden depths these conductors were not confirmed.

In 2006 Tres-Or Resources undertook airborne geophysical work over its "Mann Project" property. During 2008 Tres-Or Resources undertook drilling and mapping on the "Mann Project" property. Assay results returned 0.52 grams per tonne Pt+Pd over 14.2 m, including a 4.2 m interval of 1.0 grams per tonne Pt+Pd.

In 2008 a portion of claim 564974 was subjected to a surface-rights-only Withdrawal Order, being W-P-04/08 for possible water power development.*

In May of 2017, the lands west of the subject property of this report were staked by the author Ed Shynkorenko. The subject claim of this report was acquired (map staked) in November of 2019 by the author.

^{*}During the month of December 2020 the offices of the Mining Recorder and the Geo Assessment Unit confirmed that grass root prospecting and mapping of the mineral potential in the withdrawn area of the claim could still legally be conducted, and that subsequent work reports submitted would be accepted for approval.

List of Illustrations, Maps and Sample Photos:

All required illustrations, maps and sample location photos referred to in this document are contained within the attached Appendices.

Property Location & Ownership:

The subject property is situated approximately 30 air kilometres southwest of Cochrane Ontario, consisting of single unit claim 564974 (See Appendix A "Location / Key Map").

The claim is situated mostly within the West ½ of the South ½ of Lot 12, Concession 5, Mann Township, District of Cochrane, Porcupine Mining Division with the remaining portion of the claim situated in adjoining Duff Township, District of Cochrane; the subdivision of Duff Township into Lots and Concessions was annulled circa 1974.

Ownership of the claim is held by the author Ed Shynkorenko, Client # 194158 (17%), Margaret Sigouin, Client # 300236 (17%), Peter Hermeston, Client # 403428 (33%), and Jason Jurynec Client # 413435 (33%) (See Appendix B "Claim Map & Abstracts"). The author is also the registered "agent", with all permissions granted, for the said claim.

Access:

Access to within the boundaries of the subject claim is best gained by utilizing Highway No. 11 for 29 kilometres south from Cochrane, Ontario. Then, using a forest access road commencing westward from Highway 11 for 15.5 kilometres to the Frederick House River Bridge. From the west side of the bridge, continue on foot southwesterly for approximately 120 metres to the northern boundary of the subject property (See Appendix C "Access Map").

Regional & Property Geology:

As described by David St. Clair Dunn, P.Geo. in 2001, the regional geology, which includes the geology of the subject property, "is situated within the Mann Intrusive Complex of the Abitibi sub-province. It is located at the northwestern end of the belt of ultramafic / mafic intrusive and extrusive rocks included in the Stoughton-Roquemaure assemblage, as recognized by Jackson and Fyon (1991). The geology of Mann Township was mapped by Satterly (1959), and Hunt and Richard (1980), and is included in the regional studies of Jensen and Langford (1985). The Mann intrusive complex is very large, with a strike length greater than 40 km and a thickness greater than 1.5 km. In addition to ultramafic and mafic intrusions, the major lithologies in the area are predominantly north-westerly striking mafic metavolcanics accompanied by minor intermediate metavolcanics and interflow sediments. The Mann complex is folded along a west to northwest trending fold axis. The metamorphic grade is mid-green schist facies".

Within the property exposed rock encountered appears to be peridotite found close to the shores of the Frederick House River which dissects the claim.

Regional & Property Geology continued...

The subject property is a nearly flat landscape with minimal changes in its elevation of 260 metres above sea level, with few exposed outcrop areas located. Soils consist of an organic "A" horizon covering a deep layer of clay (See Appendix D "Regional-Property Geology Map").

The property is situated within a traditional Boreal Forest setting. Portions of the property have been subject to past logging activities, and are now densely overgrown with young balsam fir, tamarack and spruce. The residual unlogged forest cover found mainly along on the edges of the Frederick House River include: alder, cedar, black spruce, and tamarack, with the rare occurrences of white birch, white spruce and balsam fir. The property is drained by a small seasonal creek and very shallow draws, all of which empty into the Frederick House River.

Work Program:

Rationale:

The 2021 effort was to further ascertain the platinum / palladium and base metal presence from the exposed rock outcrop areas found along the western shore of the Frederick House River.

Daily Log:

On May 9th 2021 the subject property was prospected by Ed Shynkorenko, Peter Hermeston and Jason Jurynec (all licensed prospectors and MAAP verified), working separately from each other an accumulative total of approximately 4 kilometres were traversed. As exposed rock outcrops are rare given the depth of the overburden covering most of the property, the 2021 samples were only acquired near the western shoreline of the Frederick House River which dissects the subject property.

All sample locations were recorded in NAD 83 using a handheld GPS unit (Garmin E-Trex 10 model), and photographed using a digital camera with date coding functions (Fuji XP 140 model). Routes traversed, and locations of the samples taken, are indicated on the enclosed work compilation plan (See Appendix E "Work Compilation Plan").

Three samples, being MADUA, MADUB and MADUC were taken from what is believed to be the host peridotite. The assayed results of these samples and date coded photographs of the actual sampled locations are provided (See Appendix F "Assay Results and Sample Location Photographs").

All required receipts as well as the rationale of expenditure rates associated with the field work activities and subsequent report preparations are provided (See Appendix G "Required Receipts & Expenditure Rates Rationale").

Conclusions:

The three rock samples submitted for assaying produced low values for platinum, palladium, nickel, copper, zinc and cobalt.

Recommendations:

Further mapping and sampling of outcrops should be undertaken.

Author Qualifications:

The author is an honour graduate of the Sault College of Applied Arts and Technology forestry program (1980, Sault Ste. Marie, Ontario), and now a retired long time employee with the Ministry of Natural Resources. Throughout the past 40 years he has been exposed to numerous mining projects (Hemlo, Detour Lake, and the Agrium Mine). As a private individual he has staked and worked numerous mining claims since 1983. An avid reader of accredited material, the author is in an ongoing the process of expanding his knowledge base in order to augment his prospecting efforts. Prospecting remains his life-long hobby.

Communications (Direct & Indirect):

Peter Hermeston, prospector, North Bay, Ontario.
Jason Jurynec, prospector, Cochrane Ontario.
Vance White, CEO Noble Minerals Exploration, Toronto, Ontario.
Eric Marion, prospector, Larder Lake Ontario.

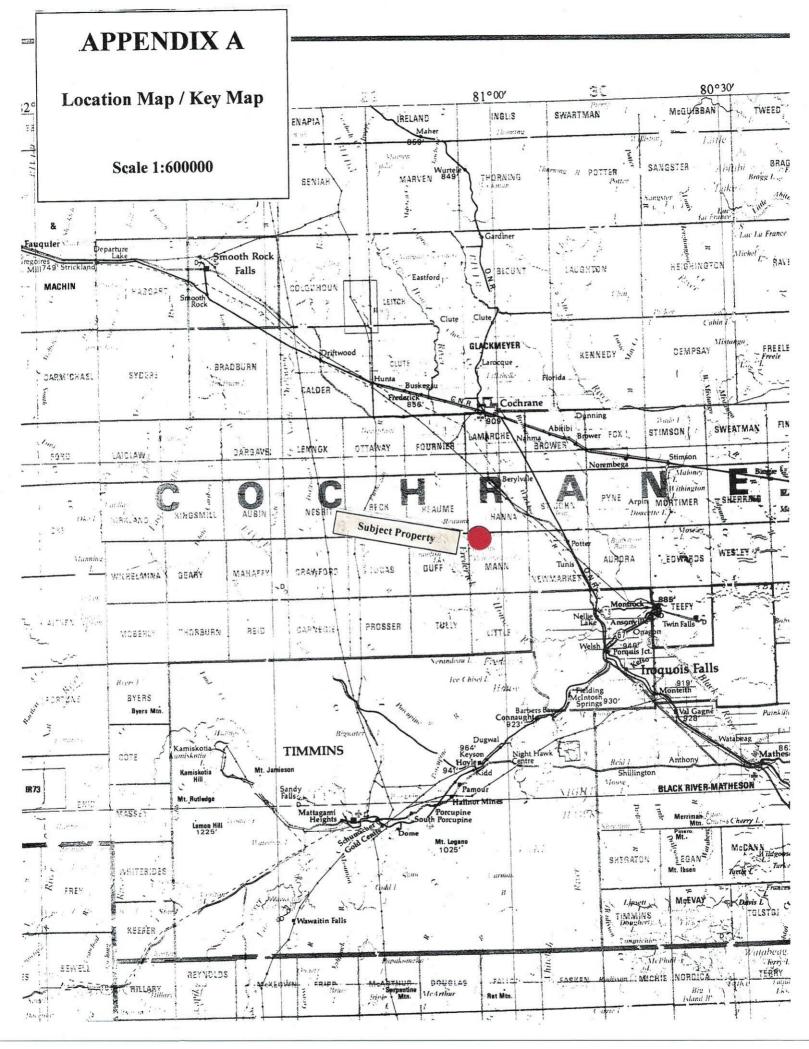
References:

"Assessment Report on Diamond Drilling by Tres-Or Resources Ltd. on Mann Property Claim #11546112" Harrison Cookemboo, Ph.D, Geo. and Elaine Basa P. Geo. (2008) MNDM File No. 2.40354

"Report on March to May 2001 Geological and Geophysical Program Mann Project-Mann and Duff townships" David St. Clair Dunn, P. Geo. (2001) MNDM File No. 2.23925

APPENDICES

Appendix A "Location / Key Map"



Appendix B "Claim Map & Abstracts"

Ontario 🖁

MINISTRY OF ENERGY, NORTHERN DEVELOPMENT AND MINES MIAS Map Viewer

APPENDIX B / Claim 564974

Notes:

Legend	Available Pending Unavailable Mining Claim Mining Claim	Allenation Allenation Withdrawal With See ENDM Administrative Boundaries	ENDM Townships and Areas Geographic Lot Fabiro UTM Grid 10K UTM Grid 10K Hinne Division of Devices	CLUPA Protected Area - Far North CLUPA Protected Area - Far North Resident Geologist District Federal Land Other Native Reserves	Ø N	Notice - History Mining Claim - History Mining Land Tenure - History Legecy Claim Provincial Grid	Provincial Grid 250K Provincial Grid 50K Provincial Grid Group Land Tenure Surface Rights	Mining Rights Mining and Surface Rights Order-in-Council
638205	8	638226	3822	638210	638221	283 283 283 283 283 283 283 283 283 283	283 401	638394
638245	638244 92414H214	638209 42A14H23A	638234 42A14H254	638223 42414H274	638208 42A14H294	583398 42A14H314	583415 42A14H334	42A14H354 638398
6.58242	628233	638241 42A14H233	638240 42A14H253	638239 42A14H273	638204 42A14H293	583413 42A14H313	583414 42A14H333	42A14H353 638382
578982	578983 42A14H212	578984 42A14H232	579291 42 A 14H252	579449 42 A 14H272	42A14H 579450 42A14H292	583603 42 4 14H312	638387 42A14H332	42A14H352 638405
569344	569310 42A14H211	574456 42A14H231	574451 42A14H251	574452 42A14H271	575225 42A14H291	575227 42A14H311	638397 42A14H331	42814H351 638403
566835	5693 09 42A14H210	1893 08 42A14H230	131146 42A14H250	574449 42 4 14270	574450 42A14H290	5/5226 42A14H310	638389 42A14H330	42A14H350 638385
574447	12A14H200 574448	137289	239548	2019H W	2200/4H289	12A14H309 564976	42A14H328 638408	638407
575228 42A14H198	574455 42A14H208	574454 42A14H228	574453 42A14H248	564973 42A14H268	564972 42A14H288	564971 42A14H308	42A14H328	42A14H34B
631618 42A4441187	638764 42A14H207	638765 42A14H227	638766 42A14H247	244049 42A14H267	279901 42A14H287	132060 42414H307	42A14H327	42A14H347
3638938 639436 631618 575228 42441485 425414186 425441188	639437 42A14H206	639438 42A14H226	639439 42A14H246	177288 42414H266	148051 42414H286	316781 42A14H306	42A14H326	42A14H345 42A14H348 42A14H347 42A14H348
631143638938	638940 42A14H205	638943 42A14H225	638946 42A14H2A5	638948 42 4 14H265	638950 42A14H285	638952 42A14H305	42A14H325	42A14H345
6311					The second secon			

Those wishing to register mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Energy, Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources and Forestry. The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Energy, Northern Development and Mines web site.



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Ministère de l'Énergie, du Développement du Nord et des Mines

Claim Abstract 564974

Status: Active

0

400

Cell Claim Type: Single Cell

Special Status:

N

Number of Cells: 1

Registration Date:29-Nov-2019

Anniversary Date: 29-Nov-2021

UTM Zone:

17

Cochrane MNR District:

29-Nov-2021 Due Date:

Total Work:

Work Required:

Total Payment In Place: 0

Last Paid in Place Date:

Mining Division: Porcupine Township Name: DUFF, MANN Total Reserve:

0

Assessment Assmnt: 50000

Consultation Reserve: 0

Exploration Reserve: 0

Cell ID(s)	42A14H269				

Client Number	Recorded Holder(s)	Percent
194158	EDWARD SHYNKORENKO	17
300236	MARGARET SIGOUIN	17
403428	PETER HERMESTON	33
413435	JASON JURYNEC	33



Claim Abstract 564974 Status: Active

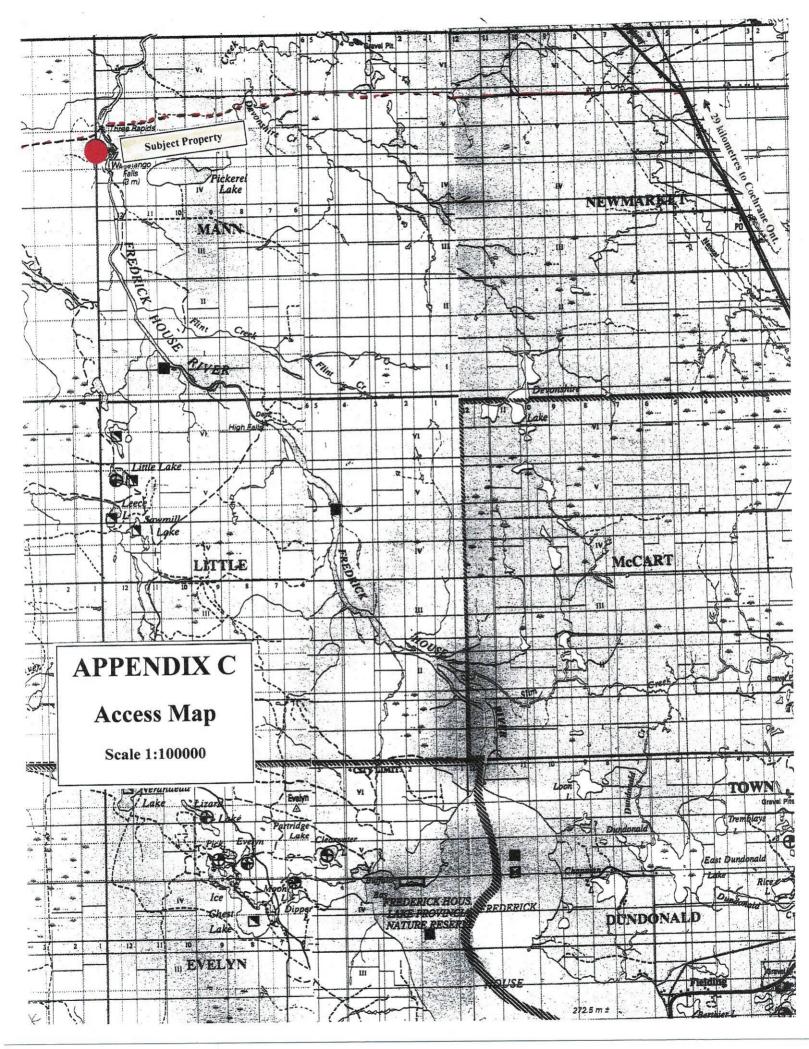
Event #	Recorded By	Event Description	Abstract Wording	Event Date
853467	MARGARET SIGOUIN	Complete Transfer of Mining Claim(s)	EDWARD SHYNKORENKO (194158) Transfers 50% to MARGARET SIGOUIN (300236)	06-Dec-2019
853446	PETER HERMESTON	Complete Transfer of Mining Claim(s)	EDWARD SHYNKORENKO (194158) Transfers 50% to PETER HERMESTON (403428)	06-Dec-2019
853408	JASON JURYNEC	Complete Transfer of Mining Claim(s)	EDWARD SHYNKORENKO (194158) Transfers 33% to JASON JURYNEC (413435)	06-Dec-2019
843659	MLAS System internal	Mining claim acquisition notification handling	Confirmation of Registration Not Required	29-Nov-2019
843639	EDWARD SHYNKOREN	Register a Mining Claim	Registered By EDWARD SHYNKORENKO (194158)	29-Nov-2019

Reservations under the Mining Act may apply

Note: Status of Claim is based on information currently on record.

Appendix C

"Access Map"



Appendix D

"Regional-Property Geology Map" *

Appendix D of this report, being Map 2205 Timmins,-Kirkland Lake Map Sheet Geological Compilation Series, Cochrane-Sudbury and Timiskaming Districts, was submitted to the Ontario Geo-Assessment Office separately in expandable pdf format. This particular map is common to other assessment report submissions and also displays other properties currently held by the author.

The subject property of this report appears within the upper northwestern section of the map.

Scale, I inch to 200 miles

M.T.S. reference 33M, 32M, 43P, 42A

LEGEND

PLEISTOCENE AND RECENT

UNCONFORMITY

INTRUSIVE CONTACT

LOWER AND MIDDLE SILURIAN

18 Thornice Formation: limestone, dolomite, sandstone.
Wabi Formation: limestone, shale.

MIDDLE AND UPPER ORDOVICIAN

17 Dawson Point Formation: shale.
Farr Formation: limestone.
Bucke Formation: limestone, shale.
Guigues Formation: sandstone.

UNCONFORMITY

INTRUSIVE CONTACT

ALKALIC INTRUSIVE ROCKS

15 Syenite, nepheline syenite.

MAFIC INTRUSIVE ROCKS

HURONIAN SUPERGROUP

Lorrain Formation

13 Quartzite, arkose.

Gowganda Formation

12 Unsubdivided. 12a Firstbrook Member: argillite, grey-wacke, siltstone, arkers

UNCONFORMITY

INTRUSIVE CONTACT

10a Quartz porphyry, quartz-feldspar porphyry, feldspar porphyry, gran-ophyre, felsited 10b Trondhjemite, granodiorite, quartz

9 Syenite, monzonite, feldspar porphyry**d**

METAMORPHOSED MAFIC AND ULTRAMAFIC ROCKS

8 Gabbro, diorite, lamprophyre.

7 Peridotite, dunite, pyroxenite, serpentinitef

INTRUSIVE CONTACT

ALKALIC METAVOLCANICS! 4 Trachyte, leucitic trachyte; flows, tuff, breccia.

ULTRAMAFIC METAVOLCANICSK

3 Serpentinized dunitic and perido-titic flows.

FELSIC METAVOLCANICS

INTERMEDIATE AND MAFIC

1 Unsubdivided.
1a Intermediate flows.
1b Intermediate pyroclastic rocks.
1c Mafic flows and pyroclastic rocks.

IF Iron formation and ferruginous chert (occurs as a member of stratigraphic units 1, 2, 4, and 5).

bNorth-trending dikes are part of Matachewan swarm.

dSeveral ages; some units appear to be intrusive equivalents of volcanic formations whereas others postdate volcanicsm.

2 Unsubdivided. 2a Pyroclastic rocks. 2b Flows.

METAVOLCANICS!

S Sulphide mineralization.

*Formerly classified as Nipissing in part.

*Formerly classified as Algoman,

eFormerly classified as Haileyburian.

hFormerly classified as Timiskaming.

Geological boundary.

Synclinal axis.

Anticlinal axis.

____ Lineament.

Provincial highway.

Motor road.

Other road.

Larger community.

Aircraft landing facilities.

Fault.

ship within or among groups,

Formerly classified as Keewatin.

fMay in part be composed of ultramafic flows.

¶Rocks in these groups are subdivided lithologically and the order does not necessarily imply age relation-

*Probably composed mainly of ultramafic flows, but may include some sills.

The letter "G" preceding a rock unit number, for ex-ample "G14", indicates interpretation from geophysi-cal data in drift covered areas.

SYMBOLS

1550' Altitude in feet above mean sea level,

Railway with station or flagstop.

6 Conglomerate, greywacke, siltstone, slate, argilliteh

Greywacke, siltstone, slate, argillite and minor pebble conglomerate

METASEDIMENTS⁹

METAVOLCANICS⁹

monzonite: simple batholiths and stocksd

10c Trondhjemile, granodiorite, quartz monzonite, quartz diorite, aplite, pegmatite, migmatite: complex batholiths.

FELSIC INTRUSIVE ROCKSC

EARLY PRECAMBRIAN

— 11 — 11 Diabase: dikes.

MAFIC INTRUSIVE ROCKS

wacke, silistone, arkose.

12b Coleman Member: conglomerate, arkose, greywacke, quartzite, argillite.

14 Diabase, granophyre: sheets and

INTRUSIVE CONTACT

Till, varved clay, sand, gravel, peat.

CENOZOIC

MESOZOIC

PALEOZOIC

PRECAMBRIAN

LATE PRECAMBRIAN

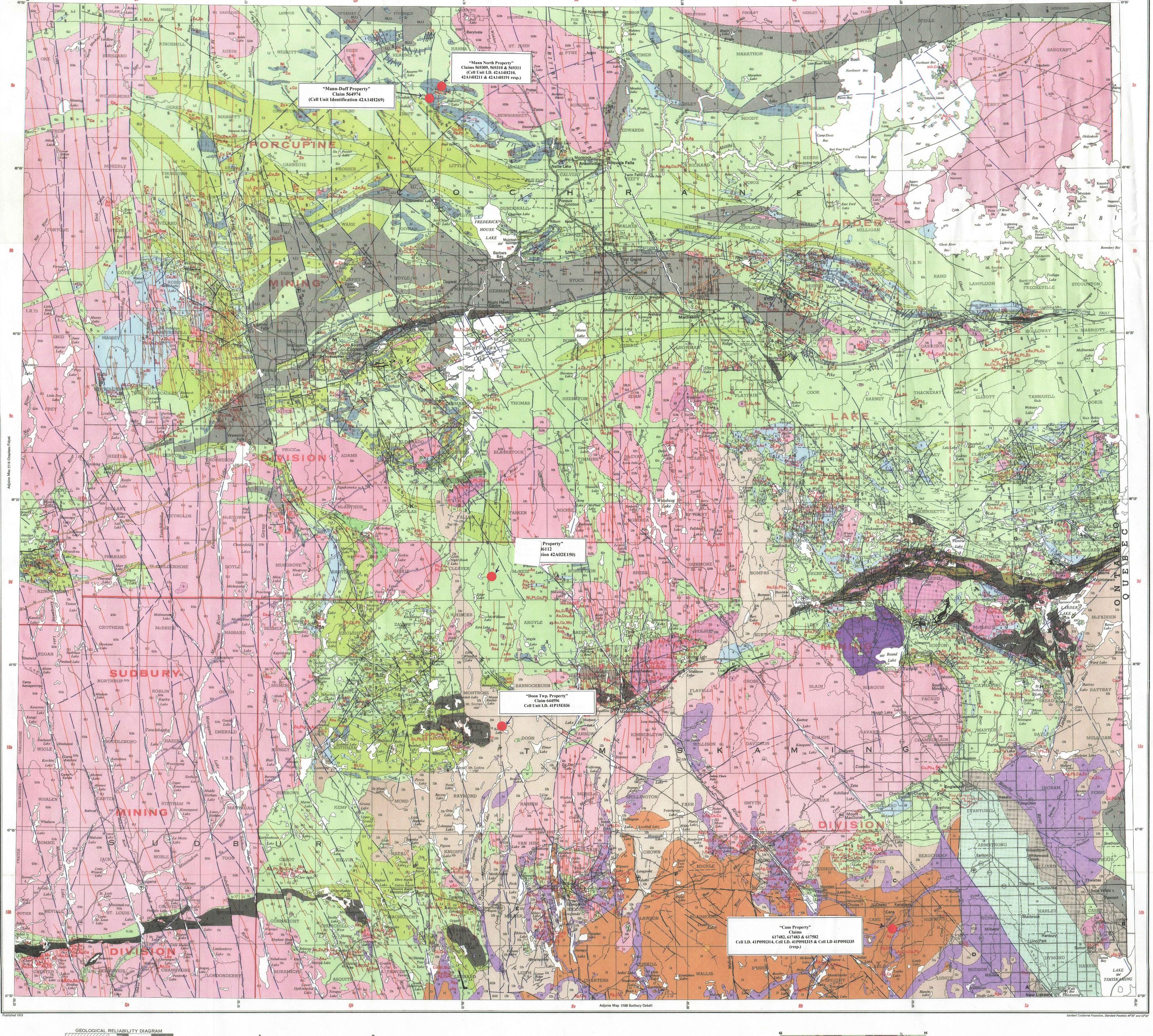
16 Diabase: dikes.

MAFIC INTRUSIVE ROCKS

MIDDLE PRECAMBRIAN

—19— 19 Kimberlite: dikes.

Adjoins Map 2161 Coral Rapids Cochrane



A Detailed mapping; 1" to 1000'; 1" to 1/2 mile; 1" to 1/2 mile. B Semi-detailed and reconnaissance mapping; 1" to ¾ mile; 1" to 1 mile; 1" to 2 miles. C Mostly unmapped.

In those areas designated on the reliability map as B or C, geological contacts were generally drawn in from limited geophysical and (or) diamond drill hole information.

PRODUCING MINES

11 McIntyre Porcupine Mines Ltd. (Qb, 9c).....Au, Ag, Cu

13 Miller Lake-O'Brien mine (Ra, 10b) Ag, Co. Ni, Cu

PAST PRODUCING MINES

1 Dome Mines Ltd. (Qb, 9c)... Dominion Foundries and Steel Ltd.

2 Adams mine (Sa, 9d)....

3 Kidd Creek mine (Qb, 9b).

4 Hallnor Mines Ltd. (Qb, 9b)...

6 Hedman Mines Ltd. (Rb, 9b)...

Hollinger Mines Ltd. 7 Ross mine (Rb, 9c)... 8 Jameland Mines Ltd. (Qa, 9b). . 9 Kam-Kotia Mines Ltd. (Qa, 9b) Kerr Addison Mines Ltd. 10 Kerr Addison mine (Sa. 9d).

Harrison Drilling and Exploration Co. Ltd. 5 Potter (Munro Copper) mine (Rb, 9b).....

12 Pamour Porcupine Mines Ltd. (Ob. 9b)... Siscoe Metals of Ontario Ltd.

14 Castle No. 1 mine (Ra, 10b). 15 Tegren Goldfield Ltd. (Rb, 9d).

16 Texmont Mines Ltd. (Qb, 9d)...

Upper Canada Mines Ltd.

18 Amilty mine (Sa, 9d)...

Argosy William Corp. Ltd. 19 Rawen River mine (Sa, 9d)...

21 Tabum mine (Rb., 9d).....

24 Aunor Gold Mines Ltd. (Qb, 9c) Banner Porcupine Mines Ltd.

26 Barry-Hollinger mine (Sa, 9d). Broulan Reef Mines

27 Bonetal mine (Qb, 9b).

28 Bonwhit mine (Ob, 9b)... 29 Broulan mine (Ob. 9b).

30 Reef mine (Qb, 9b) . . .

25 Scottish Ontario mine (Qb, 9b).

31 Canadian Jamieson Mines Ltd. (Qa, 9b).

34 Cincinnati-Porcupine Mines Ltd. (Qb, 9c) Consolidated Bidcop Mining Co. Ltd. 35 Bidgood Kirkland mine (Sa, 9d)... Consolidated Morrison Exploration Ltd.

37 Davidson-Tisdale Mines Ltd. (Qb, 9b)... 38 Delnite Mines Ltd. (Qb, 9c)... 39 Ethel Copper Mines Ltd. (Rb, 10b). Falconbridge Nickel Mines Ltd.

41 Fuller mine - Edwards Claim (Qb, 9c)

42 Crescent Kirkland mine (Rb, 9d).

Hollinger Consolidated Gold Mines Ltd.

48 Hugh-Pam Porcupine Mines Ltd. (Qb, 9b)...

49 Night Hawk Peninsular mine (Ra, 9c)...

51 Chesterville Larder Lake mine (Sa, 9d). 52 Kirkland Townsite Gold Mines Ltd. (Rb, 9d).....

Langis Silver and Cobalt Mining Co. Ltd.

53 Lake Shore Mines Ltd. (Rb, 9d) . . .

55 Dolphin-Miller mine (Sa, 10b)...

58 Cathroy Larder (Yama) mine (Sa, 9d).

59 Moffat-Hall Gold Mines Ltd. (Sa, 9d) . . . 60 Moneta Porcupine Mines Ltd. (Ob. 9c)...

61 Morris Kirkland Gold Mines Ltd. (Sa, 9d). 62 Munro-Croesus mine (Rb, 9b)... Nakhodas Mining Co. Ltd.

New Hope Porcupine Gold Mines Ltd.

45 Hollinger Consolidated Gold Mines Ltd. (Qb, 9c)....Au, Ag, W

56 Bishop, Caleta and Kenora mines (Ra, 10b)......Ag

57 Matachewan Consolidated Mines Ltd. (Ra, 10a) Au, Ag

67 Canadian Associated Goldfields mine (Sa, 9d).....Au, Ag

...Cu, Au, Ag, Mo

...Au, Ag

..Au, Ag

Golden Gate mine (Rb, 9d).. Geo-Pax Mines Ltd. 44 Ryan Lake mine (Ra, 10a)...

Canadian Johns-Manville Co. Ltd.

32 Barton Creek mine (Rb, 9b) ...

33 Munro mine (Rb, 9b) . . .

36 Morrison mine (Ra, 10b)...

40 Hoyle mine (Qb, 9b)...

Gateford Mines Ltd.

46 Crown mine (Qb, 9c)..

Vipond mine (Qb, 9c)

Hydra Explorations Ltd.

Kenilworth Mines Ltd.

50 Naybob mine (Qb, 9c). Kerr Addison Mines Ltd.

Levega Mines Ltd.

Mirado Nickel Mines Ltd.

63 Bowman mine (Qb, 9c). 64 Faymar mine (Qb, 9c)....

65 De Santis mine (Qb, 9c).

68 Crown Reserve mine (Sa, 9d).

69 Patterson Copper mine (Sa, 9d). 70 Preston Mines Ltd. (Qb, 9c).. 1 Porcupine Lake mine (Qb, 9c).

Romfield Building Corp. Ltd. 2 Buffalo Ankerite mine (Qb, 9c). 3 Rustex Mining Corp. (Ra, 10b)... Silverclaim Lake Mines Ltd. 4 Shane-Darragh mine (Rb, 10b). Siscoe Metals of Ontario Ltd.

Bonsall mine (Ra, 10b).... 6 Millerett mine (Ra, 10b)...

Capitol mine (Ra, 10b)... Castle-Tretheway mine (Ra, 10b)...

Walsh mine (Ra, 10b)...

Mann mine (Ra, 10b). Reeve-Dobie mine (Ra, 10b).

82 Sylvanite Gold Mines Ltd. (Rb, 9d)...

83 Kirkland Lake mine (Rb, 9d)... 84 Teck-Hughes mines (Rb, 9d).. 85 Tretheway-Ossian mine (Sa, 10a)...

86 Tyranite Mines Ltd. (Qb, 10b). Upper Canada Mines Ltd.

88 Upper Canada mine (Sa, 9d).. 89 United Obalski Mining Co. Ltd. (Qa, 9c)...

Westfield Minerals Ltd.

valued in excess of \$25,000.

Township) areas.

Matachewan area.

produced is as follows:

Mines and Resources, Ottawa.

Energy, Mines and Resources, Ottawa.

from the Ontario Division of Mines.

Sudbury, or at the Division of Lands, Toronto.

Kirkland Lake or Sudbury).

of each year.

Canada, 1961, 1970.

90 Coniaurum mine (Qb, 9c).

92 Young-Davidson Mines Ltd. (Ra, 10a)

Mines Ltd.)

Siscoe Metals of Ontario Ltd. - Castle Division

Siscoe Metals of Ontario Ltd. (lease from Manridge

Teck Corp. Ltd.—Teck Hughes Mining Division

87 Upper Beaver (Argonaut) mine (management

91 Wright-Hargreaves Mines Ltd. (Rb, 9d)......Au, Ag

The list of past-producers is limited to mines with metal production

MINERAL PRODUCTION AND RESOURCES

In 1971, mines located within the Timmins-Kirkland Lake sheet

produced gold, silver, cobalt, copper, zinc, lead, nickel, iron, cad-

mium, sulphur and asbestos. Barite is soon scheduled for production in Yarrow Township. The area also contains deposits of molybdenum, uranium, tungsten, bismuth, palladium, platinum, magnesium, nepheline, marl, sand and gravel. Two kimberlite dikes are known to occur; one in McCool Township, another in Gauthier

Gold is produced at the Porcupine (Timmins), Kirkland Lake-Larder Lake mining camps, and in Hislop Township southeast of

Matheson. Former production included the Matachewan and Elk

The largest producer of silver is the Kidd Creek mine north of

Timmins. Silver is also recovered at all the producing gold mines, in addition to the operating mines in the Gowganda area. Former

production included the Matachewan, Elk Lake and Cobalt (Casey

Zinc, copper, lead, cadmium and sulphur are produced by

Ecstall Mining Limited (Kidd Creek mine). Copper and zinc are produced in the Kamiskotia area west of Timmins and at the Potter mine east of Matheson. Copper is also produced at the McIntyre

Porcupine mine near Timmins, the Miller Lake-O'Brien mine near

Gowganda and the Upper Beaver mine near Larder Lake. Minor copper has also been produced in the Elk Lake, Matachewan and

Gowganda areas. Minor lead-zinc was formerly produced in the

Nickel production commenced in 1971 at the Texmont mine

located south of Timmins. Noranda Mines Limited will shortly be producing nickel from Langmuir Township, southeast of Timmins.

Nickel was formerly produced at the Alexo mine, located northeast

Iron ore is produced at the Adams mine of Dominion Foundries

and Steel Limited, located in Boston Township, south of Kirkland Nearly all the asbestos production has come from the area east of Matheson, and most of this has been from the Munro mine, a man Mines Limited is producing asbestos in Warden Township,

and Canadian Johns-Manville is currently preparing a property for production in Garrison Township; both localities are east of

Cobalt is produced in the Gowganda area, and was formerly mined in the Elk Lake and Cobalt (Casey Township) areas.

Total value of mineral production from the map area to the end of 1969 was approximately \$3,551,000,000. Quantity of minerals

532,850,393 lbs.

1,500,900,863 lbs.

53,223,216 lbs.

174,287 lbs.

370,209 tons

5,609,583 tons

26,788 tons

85,508,683 oz. Copper

130,249,224 oz. Zinc

1,726,139 lbs. Lead

6,808,922 lbs. Nickel

11,393 lbs. Iron

454,866 lbs. Asbestos

HOW TO OBTAIN ADDITIONAL INFORMATION

Published geological maps covering this sheet are indicated on Index Maps 2079, 2080 and 2081 of the Ontario Division of Mines,

Ministry of Natural Resources, Toronto, and on Index sheets 31, 32,

41, and 42 of the Geological Survey of Canada, Department of Energy,

Published geological reports covering this sheet are listed in Bulletin No. 25 of the Ontario Division of Mines, Ministry of Natural Resources and in the Index of Publications, Geological Survey of

Topographic maps of the area can be obtained from the Division

of Lands, Ministry of Natural Resources, Toronto, or the Topographic Survey, Department of Energy, Mines and Resources, Ottawa.

Air photographs may be obtained from the Silviculture Section, Division of Lands, Ministry of Natural Resources, Toronto, Ontario, or from the National Air Photographic Library, Department of

Aeromagnetic maps covering this sheet can be obtained from the Geological Survey of Canada. Partial coverage may be obtained

The name and ownership of many mineral occurrences shown on this sheet are given on Map 2148, Ontario Mineral Map, 1968.

Information on geology, mines and mineral occurrences may be obtained at the office of the local Resident Geologist (Timmins,

Mining claim maps and general information can be obtained at the office of the Mining Recorder at Timmins, Kirkland Lake, or

Up-to-date information on current developments of the mineral industry can be obtained from the annual review of the Division of

Mines and in the Annual Report of the Resident Geologists at Timmins, Kirkland Lake, and Sudbury, published in the early months

METAL AND MINERAL REFERENCE

Sulphur

agreement with Lake Beaverhouse Mines

(lease from McIntyre Porcupine Mines Ltd.)

Noranda Mines Ltd.

66 Alexo mine (Ra, 9b). Omega Gold Mines Ltd.

Associated Porcupine Mines Ltd. 22 Gillies Lake mine (Qb, 9c)... 23 Paymaster mine (Qb, 9c)...

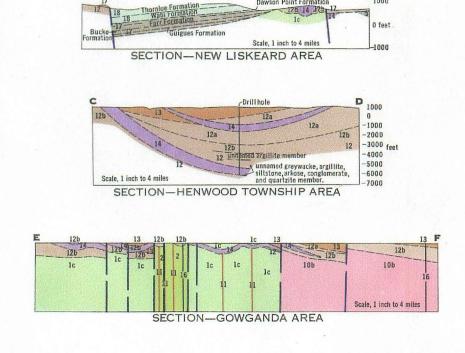
Willroy Mines Ltd.) (Rb, 9d)....

20 Ashley Gold Mining Corp. Ltd. (Ra. 9d).... Associated Arcadia Nickel Corp. Ltd.

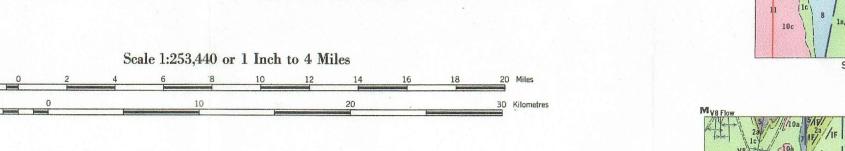
Siscoe Metals of Ontario Ltd. - Castle Division (lease from McIntyre Porcupine Mines Ltd.)

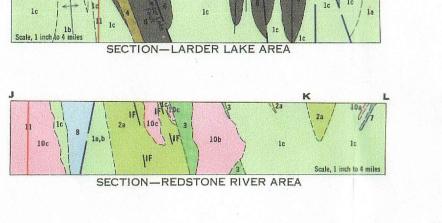
Macassa mine (management agreement with

Ecstall Mining Ltd.

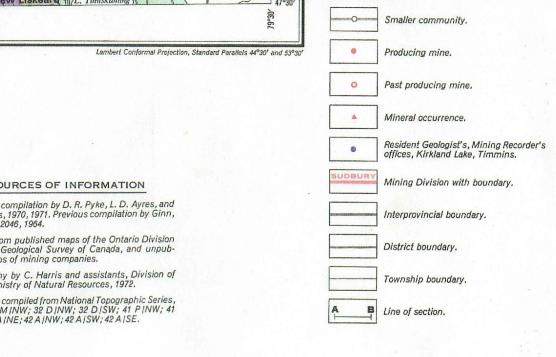


Map 2205 TIMMINS-KIRKLAND LAKE **Geological Compilation Series** COCHRANE, SUDBURY AND TIMISKAMING DISTRICTS





SOURCES OF INFORMATION Geology from published maps of the Ontario Division of Mines, Geological Survey of Canada, and unpublished maps of mining companies. Cartography by C. Harris and assistants, Division of Lands, Ministry of Natural Resources, 1972. Base maps compiled from National Topographic Series, sheets 31 M |NW; 32 D |NW; 32 D |SW; 41 P |NW; 41 P |NE; 42 A |NE; 42 A |NW; 42 A |SW; 42 A |SE.

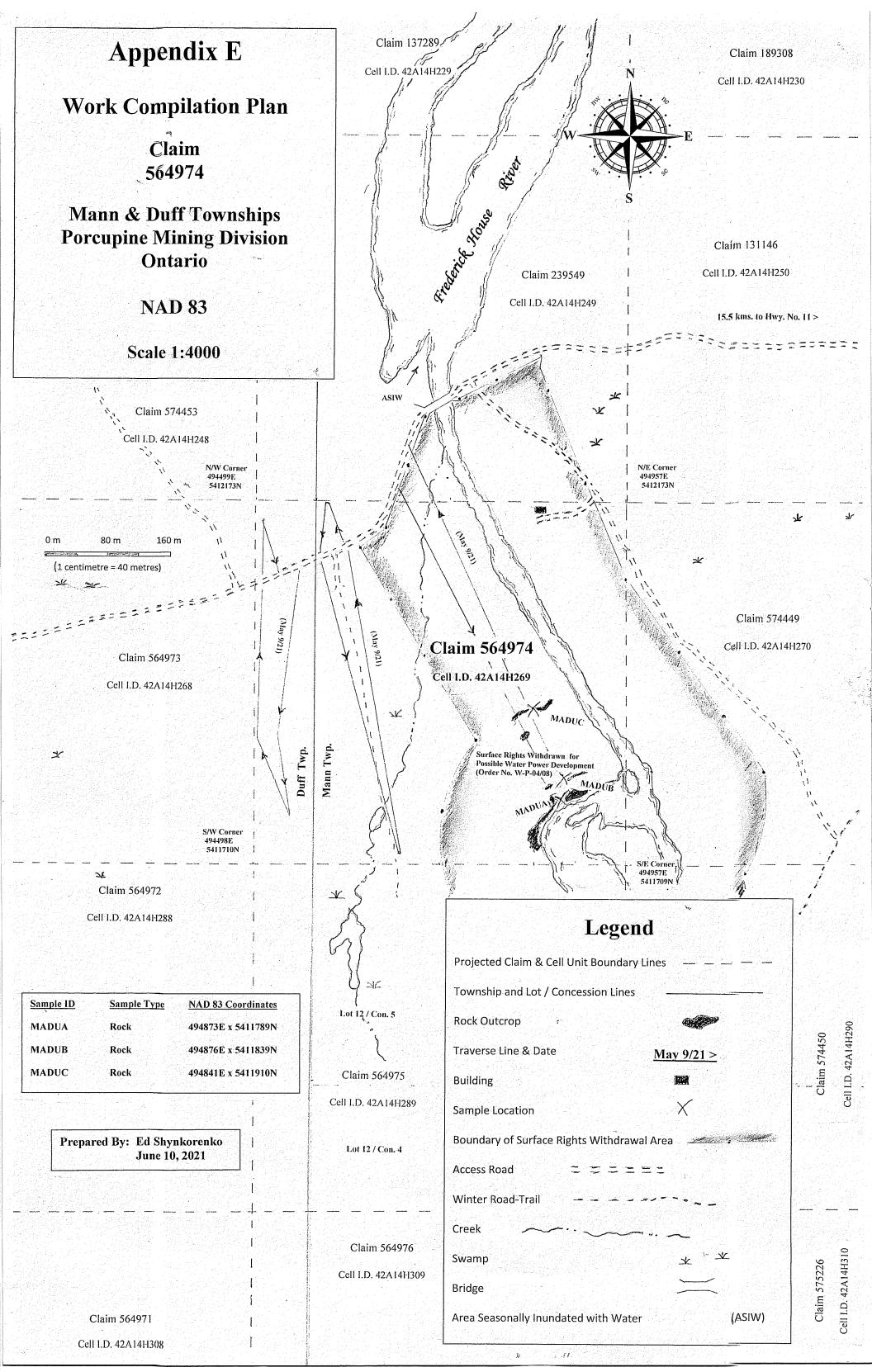


THE MAP INDEX The red letters and numbers in the borders provide a location reference system based on that of Map 2024, Ontario Mineral Map.

Appendix E

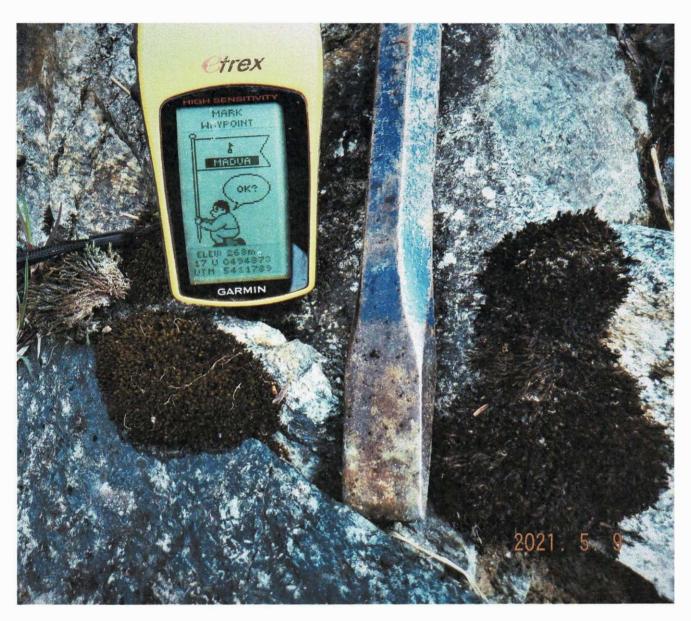
"Work Compilation Plan"

Note: Appendix E was submitted to the Geo-Assessment Office as a separate pdf file.

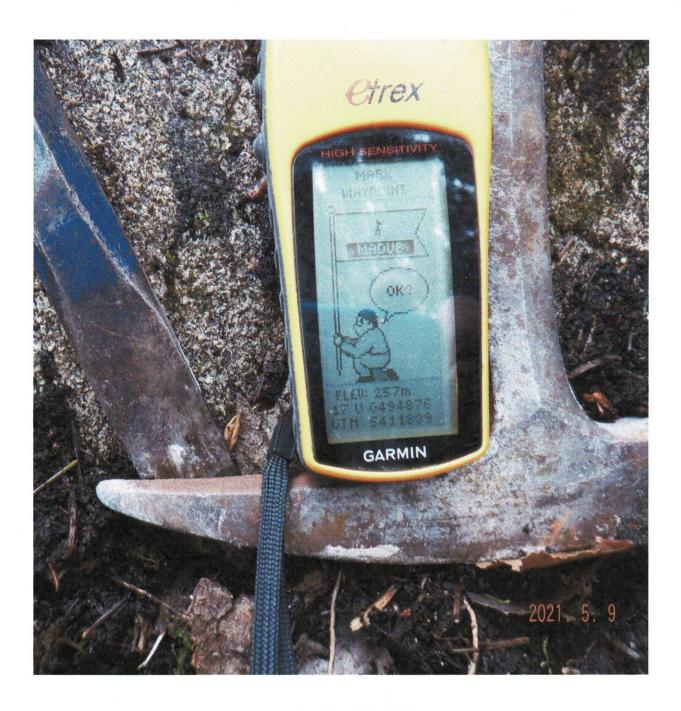


Appendix F

"Assay Results and Sample Location Photographs"



Sample I.D. "MADUA" Location 0494873E x 5411789N May 9, 2021



Sample I.D. "MADUB" Location 0494876E x 5411839N May 9, 2021



Sample I.D. "MADUC" Location 0494841E x 5411910N May 9, 2021



Swastika Laboratories Ltd

Assaying - Consulting - Representation

Page 1 of 1

Assay Certificate

Certificate Number: 21-2029

Company:

Ed Shynkorenko

Project:

Mann/Duff

Report Date:

25-May-21

Attn:

Ed Shynkorenko

We hereby certify the following Assay of 3 rock/grab samples submitted 13-May-21 by Ed Shynkorenko

Sample Number	Pt FA-MP g/Mt	Pd FA-MP g/Mt	Cu AR-AAS %	Zn AR-AAS %	Co AR-AAS %	Ni AR-AAS %
PTC-1b				0.217		
CDN-PGMS-18	0.33	1.49				
MADUA	< 0.01	< 0.01	0.027	0.003	0.003	0.003
MADUB	< 0.01	< 0.01	< 0.001	0.004	0.003	< 0.001
MADUC	0.08	0.03	< 0.001	0.003	0.002	0.005

Certified by

Yakid

Appendix G

"Required Receipts & Expenditure Rates Rationale"

(Note: some expenditure items and rates listed below have also been submitted electronically)

Vehicle Expenses

Based upon a rate previously accept by the MEND&M vehicle expenses are based on \$0.50 per kilometre (kms.). Therefore:

Vehicle Hermeston, May 9/21, North Bay Ont. to property and return 760 kms. x \$0.50 \$380.00

Vehicle Jurynec, May 9/21, Cochrane Ont. to property and return 96 kms. x \$0.50 \$48.00

Vehicle Shynkorenko, May 9/21, Cochrane Ont. (rural) to property and rtn. 106 kms. x \$0.50 \$53.00

\$481.00

Labour (field)

Based upon a rate previously accept by the MEND&M labour expenditures are based upon \$240 per manday (8 hours). Therefore:

One field day, three prospectors each at \$240 per day equates to \$240.00 x 3

\$720.00

Report Preparation

Based upon a rate previously accept by the MEND&M labour expenditures are based upon \$240 per manday (8 hours). Therefore:

Accumulative 5 man-days to research, prepare & scan work rpt. / map (s) equates to

\$1200.00

Assaying

Assaying costs (with no shipping of samples cost)

\$233.91

Total \$2,634.91

(rounded to \$2,635.00)