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# **2021 Work Assessment Report**

# "Cane Property"

# Claims 617482, 617483 & 617582

Cell I.D. 41P09H314, Cell I.D. 41P09H315 & Cell I.D. 41P09H335 (resp.)

# Cane Township (M-211) Larder Lake Mining Division District of Temiskaming, Ontario

(Prov. Grid Group 41P09H)

Prepared By:

Ed Shynkorenko

Prospector License M-25405

**MAAP No. 5932** 

July 15th 2021

#### Forward:

The field work detailed in this document, being hand sampling and the mapping, was undertaken by the author and prospector Peter Hermeston on May 13<sup>th</sup> 2021. Given the ongoing Covid 19 situation both men (who are vaccinated) accessed the property using separate vehicles and worked separately while on the property. During traveling there were no stops and no interactions with others.

The "Cane Property", herein referred to as the subject property, being contiguous claims 617482, 617483 and 617582 are partially located within Lots 2 and 3, Concession 2, Cane Township, District of Temiskaming Ontario, Larder Lake Mining Division. The claims are held by the author, Edward Shynkorenko (Lic. M25405 / MAAP No. 5932) and prospector Peter Hermeston (Lic.1003623 / MAAP No. 5931). The author is also the registered "agent" with the appropriate permissions granted for the said claims.

Two of the provincial grid cells that host the claims comprising the subject property overlap private mining lands to the east reducing the land area of the subject property overall to approximately 43.9 hectares.

This report addresses the 2021 effort to further ascertain the cobalt potential of several historical trench systems and showings evident along the eastern extremity of the subject property. From past efforts by others (circa early 1980's) numerous historical trench systems, pits and exploration shafts were charted along the boundaries of the patented lands once known as the "Solid Silver Mines Property". Although these undertakings indicated non commercial assayed values for silver or copper, several locations studied suggested an elevated presence of cobalt. However, no available assay results for cobalt were recorded. Given the rising importance of cobalt in the production of electric vehicle batteries, the author claimed the subject property in October of 2020.

All required illustrations, tables, maps, sample location photographs, assay results and required receipts are contained separately within the Appendices of this document, or submitted separately in pdf format.

Expenditure rates for work, transportation, labour, etc. were derived from existing government standards.

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<sup>\*</sup> The "Regional-Property Geology Map" used in Appendix D of this report, being Map 2205 Timmins,-Kirkland Lake Map Sheet Geological Compilation Series, Cochrane-Sudbury and Timiskaming Districts is presented in expandable pdf format. It is common to other assessment report submissions by the author, and as such also displays other properties being worked.

#### Introduction & History:

The subject property, being contiguous claims 617482, 617483 and 617582 are partially located within Lots 2 and 3, Concession 2, Cane Township, District of Temiskaming Ontario, Larder Lake Mining Division. In brief, exploration for silver, on and adjacent to the subject property, is believed to have commenced circa 1912. Since that time numerous trenches and exploration pits were established on the lands currently contained within the configurations of the subject property.

Over the decades, the subject area was intermittently held under various staked claims. By the early 1960's the said property was within the boundaries of what was then known as the "Solid Silver Mines Property". In 1963 the property was included in an overall examination of Solid Silver's holdings (A. Howe P. Eng.1964). During this exercise several exploration shafts, adits and trench systems were located and mapped.

In 1979-80, the land comprising the subject property was again studied, this time by Cane Consolidation Explorations (J. Willars P.Eng. 1980). The report produced by Willars, addressed geological mapping, gridline cutting, along with a modest amount of drilling. The cores were assayed for silver (only), with discouraging results. However, this 1979-80 submission has proven a very worthy starting point by which all proposed exploration efforts can be built upon.

Of particular importance to current efforts was Willars meticulous mapping of the cut grid line system, outcrops, veins, faults, shear zones, magnetic anomalies, adit/shaft locations and hundreds of metres of the historic trenches established over the previous decades. The trench systems mapped indicated the presence of cobalt. Although the 1979 cut grid line system mapped by Willars has long since grown in, it had physically tied into the survey fabric of Cane Township, in particular the line of latitude that separates Concession 2 and 3 of Cane Township. That tie in with the township survey fabric now easily allows any station or area of interest shown on Willars 1979-80 map to be given a current NAD83 GPS reference, and thus readily located.

Since 1980, the area of the subject property remained intermittently held under staked claims, and was eventually acquired by the author in October of 2020.

#### **List of Illustrations:**

All required illustrations, tables, maps, sample location photographs, assay results and required receipts are contained separately within the Appendices of this document or submitted separately in pdf format.

#### Location & Ownership:

The subject property is located approximately 27 kilometres southeast of the community of Elk Lake, Ontario being contiguous claims 617482, 617483 & 617582 which are partially located within Lots 2 and 3, Concession 2, Cane Township, District of Temiskaming Ontario, Larder Lake Mining Division.

#### Location & Ownership continued:

Two of the provincial grid cells that host the claims comprising the subject property overlap private mining lands to the east reducing the land area of the subject property overall to approximately 43.9 hectares.

The claims are held 50% by Peter Hermeston (Client # 403428) and 50% by the author Edward Shynkorenko (Client # 194158). The author is also the registered "agent" with the appropriate permissions granted for the said claims. (See Appendix A "Location / Key Map" and Appendix B "Claim Map and Abstracts").

#### Access:

Access to the property is best gained by utilizing Highway No. 65 for approximately 30 kilometres westward from the community of Temiskaming Shores, Ontario, to the hamlet of Kenabeek. Then south for approximately 3 kilometres along a concession line road, then due west for approximately 2 kilometres via an intersecting concession road. From this point an additional 3 kilometres of a secondary forest access road trending southwesterly provides access to within the confines of the said property (Appendix C "Access Map").

#### Regional & Property Geology:

The regional and property geology is best described by a description contained within a 1963 report produced by A. Howe P. Eng. "The property is situated between the silver producing areas of Cobalt and Gowganda. In general the geology is similar across the whole area and a brief description follows. The oldest rock types are lavas and tuffs of Keewatin age. These are intruded by large granitic stocks and batholyths of Algoman age. Intruding both the Keewatin and Algoman series are quartz diabase dykes classed as Matachewan. These dykes do not intrude the overlying Huronian sediments. The sediments (Cobalt series) consist of conglomerates, greywacke and quartzites, and they overlie the older formations with a great unconformity. These sediments are intruded by a series of sills and dykes classed as Keweenawan in age. The intrusive are almost entirely of quartz diabase composition, except for a small amount of granophyre and the silver-cobalt veins. The earliest rock in the Keweenawan system is the Nipissing quartz diabase sill, which is of paramount importance since the only commercial silver deposits in the Cobalt-Gowganda area are controlled by it. Diabase dykes of later age cut the sill and the sediments, as narrow vertical intrusives." (See Appendix D "Regional-Property Geology Map").

Elevations on the property range from 280 metres to 360 metres above sea level.

The said exposed outcrops of diabase are for the most part steeply sloped eastward. On average, soils consist of an organic "A" horizon covering a shallow coarse gravel, and in some places, a yellowish sand.

#### Regional & Property Geology continued:

The subject area is situated within a traditional Boreal Forest and Great Lakes St. Lawrence Forest transitional zone setting. Forest cover includes cedar, black spruce, black ash, and tamarack in the lower areas changing to a white spruce, white pine, jack pine, red pine, balsam fir, white birch, and red maple over the more elevated areas of the property. The subject property is drained by several intermittent draw systems that eventually drain into the St. Jean Baptiste and the Lepha creek systems

#### Work Program:

#### Rationale:

The 2021 effort was to further ascertain the cobalt presence within the boundaries of the subject property.

#### Daily Log:

On May 13<sup>th</sup> 2021, the subject property was prospected by Ed Shynkorenko and Peter Hermeston (both MAAP verified), working separately from each other, the two men traversed an accumulative 1.6 kilometres while on the subject property. Sampling efforts were focused along the eastern edges of claims 617483 and 617582 as numerous historic trench systems and exploration pits, as well as several magnetic anomalies, were previously charted.

Three samples, being CAN01, CAN02 and CAN03 were taken from the waste rock (Nipissing Diabase) of historical trench systems established within the diabase. 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 (Fuji XP 140 model). Routes traversed, and locations of the samples taken are indicated on the separately submitted work compilation plan (See Appendix E "Work Compilation Plan").

The assayed results of the samples along with date coded photographs of the actual sampled locations are enclosed, (See Appendix F "Assay Results and Sample Location Photographs").

Vehicle and labour rates along with required receipts are provided (See Appendix G "Required Receipts & Expenditure Rates Rationale").

#### Conclusions:

Platinum and palladium values from the three samples assayed indicated non commercial values. Assayed results for Ni, Zn, Cu, and Co, while low, were somewhat anomalous. Sample CAN03 indicated 780 ppm (0.078 %) cobalt and 270 ppm Ni (0.027 %).

#### Recommendations:

As a modest commercial value of cobalt has now been confirmed on the subject property further grass roots exploration work is warranted.

#### **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 is now a retiree of the Ministry of Natural Resources. Throughout the past 4 decades he has been exposed to numerous mining projects (Hemlo, Detour Lake, and Agrium). A reader of accredited material, the author is in the ongoing process of expanding his knowledge base in order to augment his prospecting efforts.

Prospecting remains his life-long hobby.

#### Communications (Direct & Indirect):

Peter Hermeston, fellow prospector, North Bay, Ontario. Heather Martin, Natural Resources Canada.

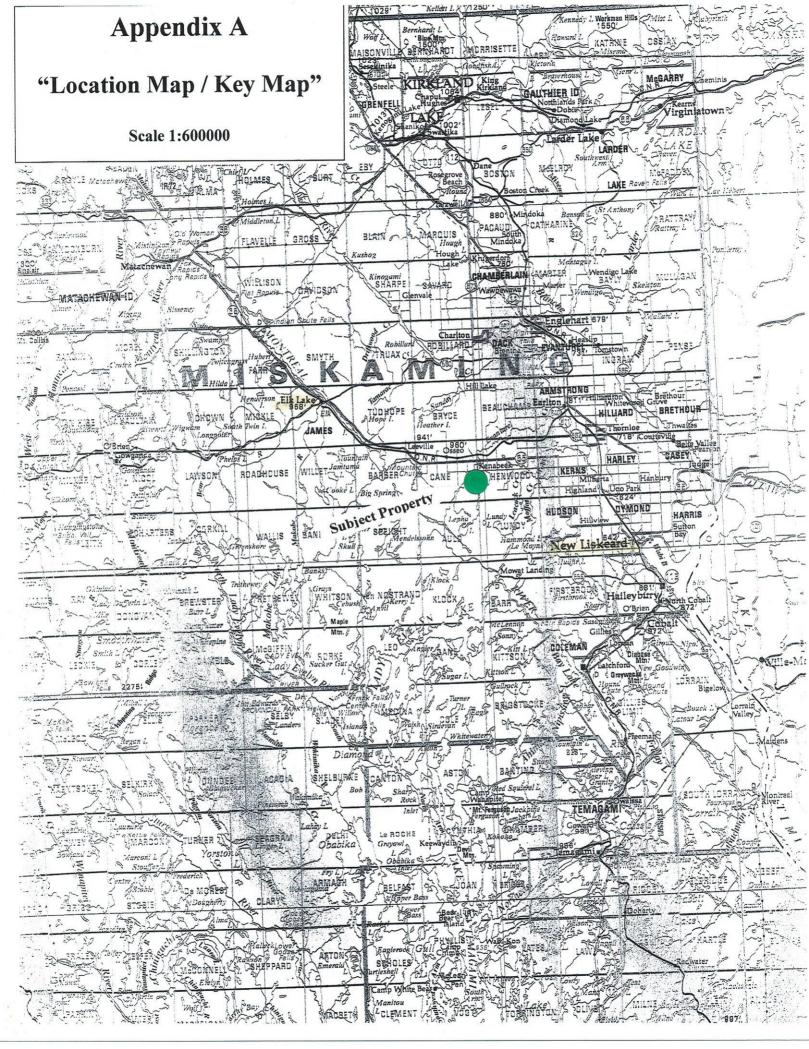
#### References:

"Geology of the Northern Portion of Solid Silver Mines Property Cane-Auld Townships Timiskaming District, Ontario2" (A.C.A Howe, P. Eng. 1963) MNDM File 41P09SE002 63A. 437 Cane Twp.

Report to the Presidents and Directors of Cane Consolidated Explorations Ltd. (J.G. Willars P. Eng. 1980).

# **APPENDICES**

# Appendix A "Location / Key Map"



# Appendix B

"Claim Map & Abstracts"



#### MINISTRY OF ENERGY, NORTHERN DEVELOPMENT AND MINES MLAS Map Viewer

#### **APPENDIX B**

Notes:

41P09H250	41P09H251	41P09H252	41P09H253	41P09H254	41P09H255	41P09H256	41P09H257	41P09H25841P09H259	41P09H260	Legend Provincial Grid Cell Available Pending Unavailable
41P09H270	41P09H271	41P09H272	41P09H273	41P09H274	41P09H275	41P09H276	635720 41P09H277	41P09H27841P09H279	41P09H280	Mining Claim Mining Claim Boundary Claim Allenation Withdrawal
41P09H290	41P09H291	41P09H292	41P09H293	41P09H294	41P09H295	546017 41P09H296	635723 41P09H297	41P09H29841P09H299	41P09H300	Notice  ENDM Administrative Boundaries  ENDM Townships and Areas  Geographic Lot Fabirc  UTM Grid 1K
41P09H310	41P09H311	41P09H312	41P09H313	617482 41P09H314	617483 41P09H315	635721 41P09H316	635722 41P09H317	41P09H31841P09H319	41P09H320	UTM Grid 10K  Mining Division  Mineral Exploration and Development Regi  CLUPA Protected Area - Far North  Resident Geologist District
24951 41P09H330	41F09H 624953 41F09H331	624952 41P09H332	41P09H333	41P09H334	617582 41P09H335	41P09H336	41P09H337	41P09H33841P09H339		Federal Land Other  Native Reserves  MIS Sites  AMIS Features  Drill Hole
617173 41P09H350	617174 41P09H351	624954 41P09H352	41P09H353	41P09H354	41P09H355	41P0 H356	41P09H357	11P09H358 41P09H359	41P09H360	Minerel Occurrences MLAS Mining History Withdrawal - History Notice - History Mining Claim - History
617175 11P09H370	41P09H371	41P09H372	<b>41P09H373</b>	41P09H374	41P09H375	41P0 )H376	41P09H377	i1P09H37841P09H379	41P09H380	Mining Lend Tenure - History  Legacy Claim  Provincial Grid  Provincial Grid 250K  Provincial Grid 50K  Provincial Grid Group
41P09H390		200	41P09H393					11P09H39841P09H399	41P09H400	Land Tenure Surface Rights Mining Rights Mining and Surface Rights
41P09A010	41P09A011	41P09A012	201158	137288	410094015	41PC 9A 016	41P09A017	41P09A019	41P09A020	Mining and Surface Rights  Order-in-Council

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.

Projection: Web Mercator

Imagery Copyright Notices: Ontario Ministry of Natural Resources and Forestry; NASA Landsat Program; First Base Solutions Inc.; Aéro-Photo (1961) Inc.; DigitalGlobe Inc.; U.S. Geological Survey.

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# Mining Claim Abstract

#### Claim Number: 617482 Claim Number: 617482 Total Work: Cell Claim Type: Single Cell Mining Claim Work Required: 400 Claim Status: **Extension Date:** Active 0 Pending Total Reserve: Proceedings: Assessment 50000 Hold - Special Assignment: Circumstances Total Payment In Apply: Place: Special Status: Last Payment In Number of Cells: Place Date: 2020-10-27 Consultation n Registration Work Reserve: Date(Issue Date): **Anniversary Date:** 2022-10-27 **Exploration Work** Reserve: 17 UTM Zone: Mining Division: Larder Lake

Reservations under the Mining Act may apply

Kirkland Lake

Legacy Claim Abstract HyperLink

MNR District:

Cell IDs

41P09H314

## Claim Holders

Recorded Holder(s)	Percentage	Client Number
PETER HERMESTON	50	403428
EDWARD SHYNKORENKO	50	194158

# Mining Claim Abstract

#### Claim Number: 617483

Claim Number:

617483

Cell Claim Type:

Single Cell Mining Claim

Claim Status:

Active

Pending

Proceedings:

Hold - Special Circumstances

Apply:

Special Status:

Number of Cells:

Registration

Date(Issue Date):

**Anniversary Date:** 

**UTM Zone:** 

Mining Division:

Larder Lake

Reservations under the Mining Act may apply

Kirkland Lake

2020-10-27

2022-10-27

**MNR** District:

Total Work:

C

Work Required:

400

Extension Date:

Total Reserve:

Assessment

50000

Assignment:

Total Payment In

Last Payment In

Place Date:

Consultation

Work Reserve:

**Exploration Work** 

Reserve:

0

0

G

C

Legacy Claim Abstract HyperLink

Cell IDs

41P09H315



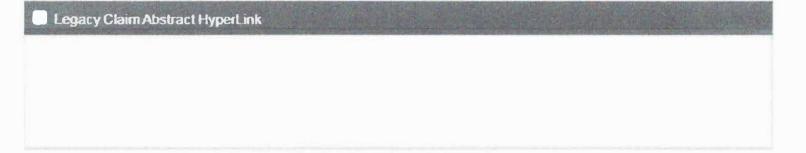
Recorded Holder(s)	Percentage	Client Number
PETER HERMESTON	50	<b>40</b> 3428
EDWARD SHYNKORENKO	5 <b>0</b>	194158

# Mining Claim Abstract

-				
	Claim Number: 617582			
	Claim Number:	617582	Total Work:	C
	Cell Claim Type:	Single Cell Mining Claim	Work Required:	400
	Claim Status:	Active	Extension Date:	
	Pending		Total Reserve:	C
	Proceedings:		Assessment	50000
	Hold - Special		Assignment:	
	Circumstances Apply:		Total Payment In Place:	0
	Special Status:		Last Payment In	
	Number of Cells:	1	Place Date:	
	Registration	2020-10-30	Consultation	C
	Date(Issue Date):		Work Reserve:	
	Anniversary Date:	2022-10-30	<b>Exploration Work</b>	C
	UTM Zone:	17	Reserve:	
	Mining Division:	Larder Lake		

Reservations under the Mining Act may apply

Kirkland Lake



#### Cell IDs

41P09H335

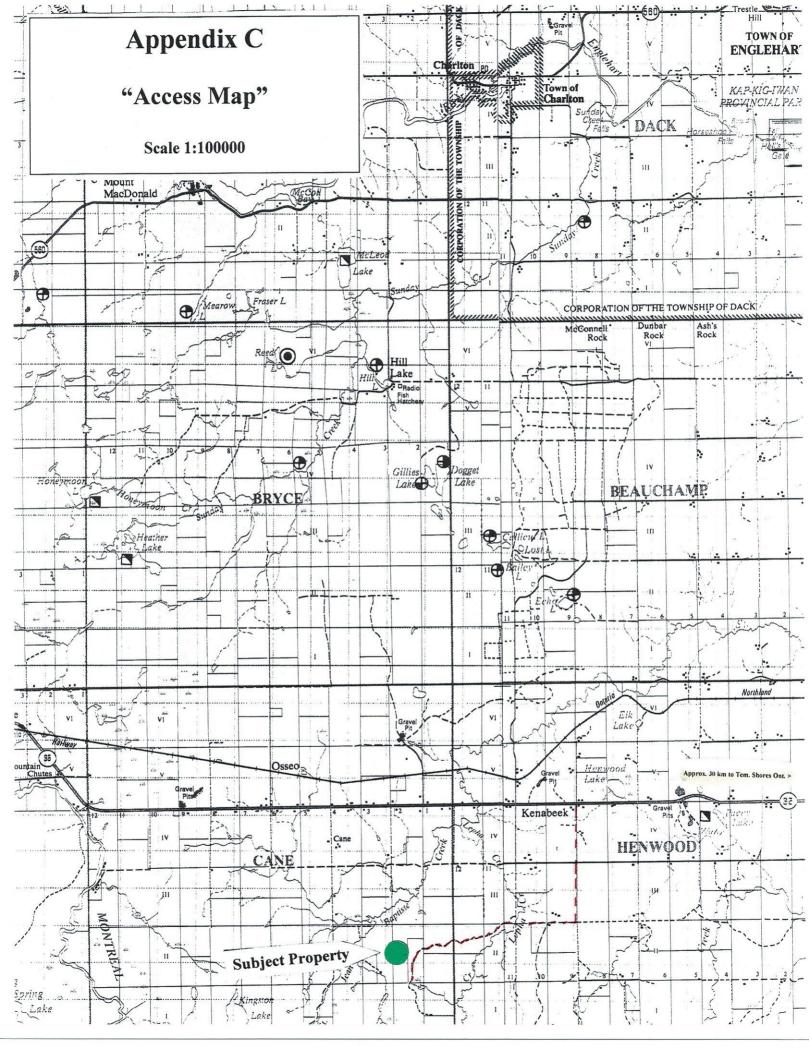
MNR District:

## Claim Holders

Recorded Holder(s)	Percentage	Client Number
PETER HERMESTON	50	403428
EDWARD SHYNKORENKO	5 <b>0</b>	194158

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 southeastern quadrant 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

METASEDIMENTS<sup>9</sup>

METAVOLCANICS<sup>9</sup>

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

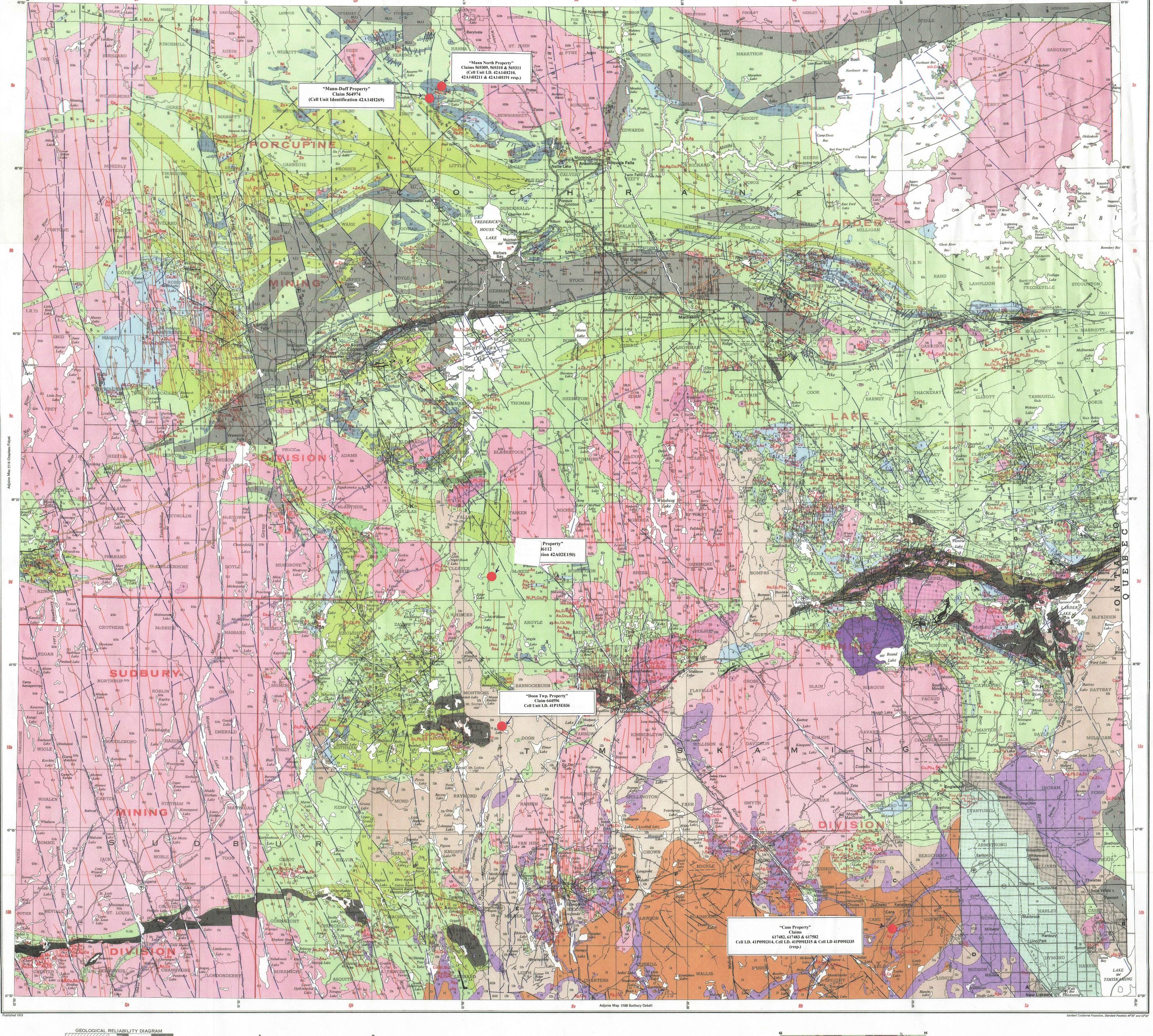
16 Diabase: dikes.

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)...

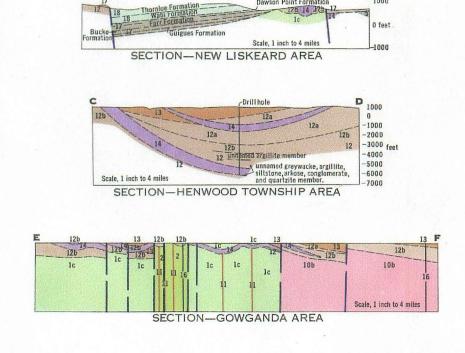
Willroy Mines Ltd.) (Rb, 9d)....

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

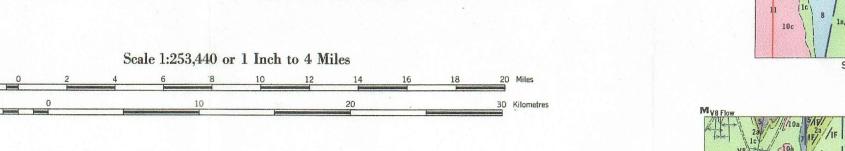
Siscoe Metals of Ontario Ltd. - Castle Division (lease from McIntyre Porcupine Mines Ltd.)

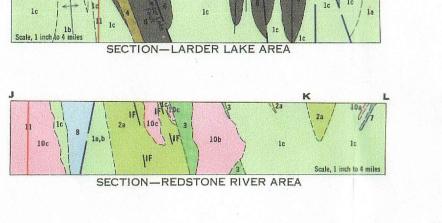
Macassa mine (management agreement with

Ecstall Mining Ltd.

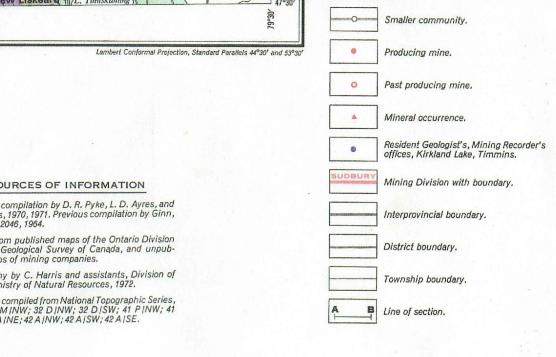


Map 2205 TIMMINS-KIRKLAND LAKE **Geological Compilation Series** COCHRANE, SUDBURY AND TIMISKAMING DISTRICTS





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.

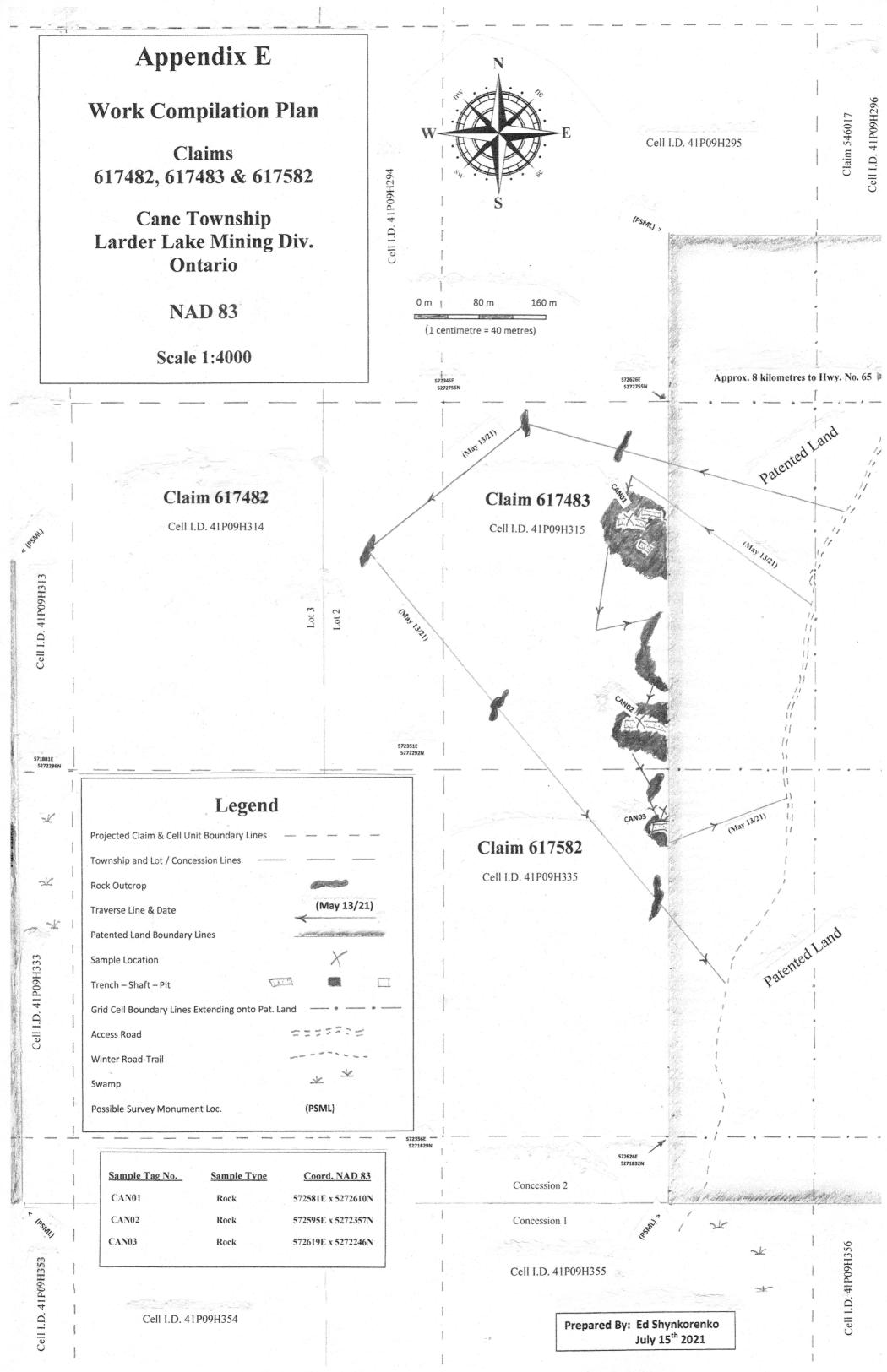


THE MAP INDEX The red letters and numbers in the borders provide a location reference system based on that of Map 2024, Ontario Mineral Map.

## Appendix E

## "Work Compilation Plan"

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

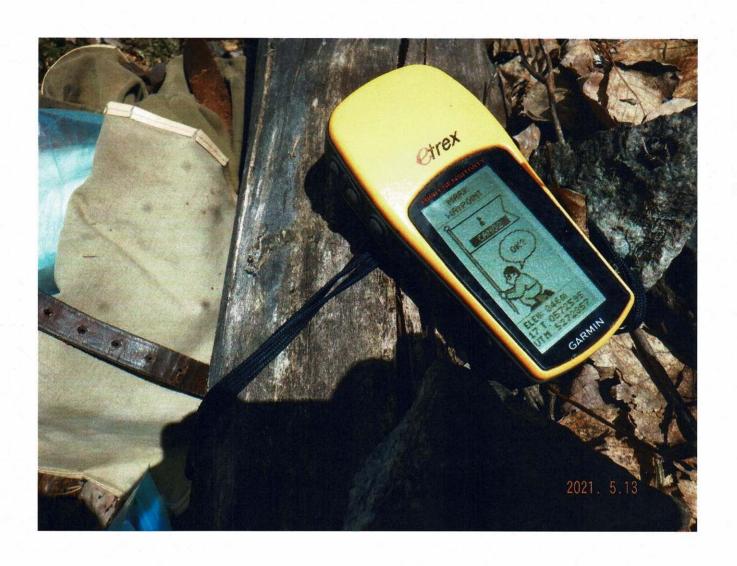


## Appendix F

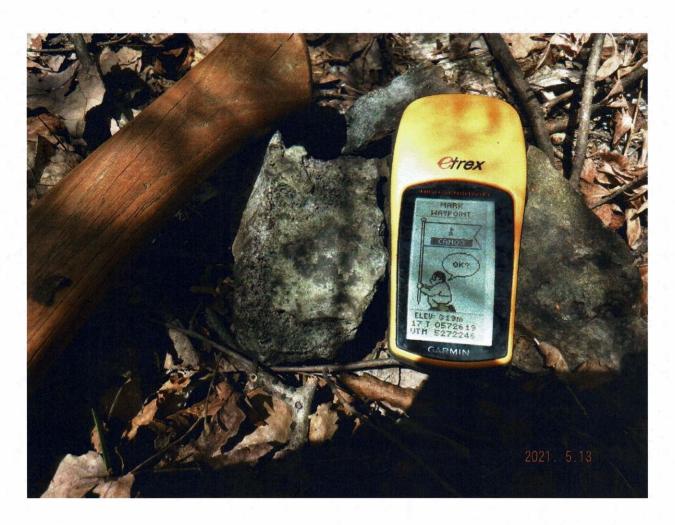
## "Assay Results and Sample Location Photographs"



Sample I.D. "CAN01" Location 0572581E x 5272610N May 13, 2021



Sample I.D. "CAN02" Location 0572595E x 5272357N May 13, 2021



Sample I.D. "CAN03" Location 0572619E x 5272246N May 13, 2021



## Swastika Laboratories Ltd

Assaying - Consulting - Representation

Page 1 of 1

#### Assay Certificate

Certificate Number: 21-2293

Company:

**Ed Shynkorenko** 

Project:

**CANE TWP** 

Report Date:

29-Jun-21

Attn:

Ed Shynkorenko

We hereby certify the following Assay of 3 rock/grab samples submitted 07-Jun-21 by Ed Shynkorenko

Sample Number	Pt FA-MP ppb	Pd FA-MP ppb	Cu AR-AAS	Zn AR-AAS %	Co AR-AAS १	Ni AR-AAS 8
CDN-PGMS-18	320	1400				
PTC-1b					0.306	
CAN01	< 5	< 5	0.012	0.007	0.004	0.005
CAN02	< 5	< 5	0.007	0.005	0.003	< 0.001
CAN03	< 5	< 5	0.003	0.006	0.078	0.027

Certified by

- Valido

Valid Abu Ammar

## 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 13/21 North Bay Ont. to property and return 412 kms. x \$0.50

\$206.00

Vehicle Shynkorenko, May 13/21, Cochrane Ont. (rural) to property and rtn. 560 kms. x \$0.50

\$280.00 \$486.00

#### 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, two prospectors each at \$240 per day equates to \$240.00 x 2

\$480.00

#### **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 \$2399.91

(rounded to \$2,400.00)