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Sage, R.P. 1993. Precambrian geology, Abotossaway Township, Ontario Geological Survey, Open File Map 223, scale 1:15 840.

SOURCES OF INFORMATION

Base map derived from Forest Resources Inventory maps, Lands and Waters Group, Ontario Ministry of Natural Resources, Assessment Files Research Office, Ontario Geological Survey, Toronto (AFRO); Resident Geologist's Files, Ontario Ministry of Northern Development and Mines, Sault Ste. Marie; Records, The Algoma Steel Corporation Limited (formerly Algoma Ore Properties Limited), Sault Ste. Marie; Assessment Files Office, Algoma Central Railway Sault Ste. Marie (ACR); Geology not tied to surveyed lines. Magnetic declination approximately 6° 18' W in 1983.

LEGEND PHANEROZOIC CEANOZOIC QUATERNARY PLIOSTOCENE AND RECENT Organic soils, sandy till, glacioluvial sand and gravel UNCONFORMITY

PRECAMBRIAN PROTEROZOIC

- 12 Mafic Intrusive Rocks
12a Diabase
12b Porphyritic (felsic) diabase
12c Glomeroporphyritic (felsic) diabase
12d Diabase with minor biotite
12h Carbonate
12i Olivine lamprophyre
12j Carbonate-silicocarbonate
12k Ferruginous carbonate
12l Syenite
12m Olivine lamprophyre
12n Porphyritic (felsic) lamprophyre
12v Lamprophyre with xenoliths

- 11 Firesand Carbonate
11a Sulfate
11b Silicocarbonate
11c Nepheline (feruginous diatomite)

ARCHAIC

- 8 Herman Lake Alkalic Rock Complex
8a Medium-grained equigranular amphibole syenite
8b Coarse-grained nepheline-calcic syenite
8c Nepheline syenite pegmatite
8d Melanocratic nepheline syenite to malinite
8e Pyroxenite
8f Syenite pegmatite
8g Fine-grained syenite to nepheline syenite
8h Syenite apite to quartz syenite apite
8i Coarse-grained syenite
8k Metagabbro, may not be related to complex

6 Metamorphosed Mafic to Ultramafic Intrusive Rocks

- 6a Gabbro, diorite
6b Anorthositic gabbro
6c Anorthosite
6d Diabase
6e Hornblende diorite
6f Pseudotachylite
6g Pyroxenite
6h Talc schist
6i Mafic dikes
6j Quartz diorite, trondhjemite
6k Quartz gabbro
6l Anorthositic gabbro
6m Porphyritic gabbro, diorite
6n Carbonatized or carbonate-bearing mafic intrusion
6o Hornblende
6p Hornblende-biotite rock with xenoliths (intrusive breccia)
6q Biotite-rich intrusive rock
6r Intrusive Breccia

5 Chemical Metasedimentary Rocks

- 5a Magnetite/hematite chert iron formation
5b Carbonate, commonly with minor chert, pyrite, and rarely arsenopyrite
5c Sulfide, commonly associated with subordinate siderite and chert
5d Chert, may contain subordinate siderite and pyrite locally may be graphitic
5e Graphite-argillite, commonly pyritic, argillaceous and associated with iron formation
5f Chert and iron oxide in approximately equal portions
5g Chert and carbonate in approximately equal portions
5h Chert and sulfide in approximately equal portions
5i Chert, graphite, argillite (diachert containing graphite)
5j Chert, siderite and magnetite
5k Chert, wacke or siltstone
5l Chert cemented with iron oxides, i.e. weathered iron formation (chert breccia)
5m Chert, hematite
5n Iron oxide, chert, wacke
5o Chert breccia

4 Clastic Metasedimentary Rocks

- 4a Volcanic clast wacke
4b Chert
4c Pseudotachylite-quartz-biotite schist
4d Wacke, lithic wacke
4e Argillite
4f Interlaminated siltstone, mudstone
4g Conglomerate with granitic clasts
4h Volcanic clast conglomerate
4i Siltstone, sandstone, lithic sandstone
4j Quartz arkose, arkose, lithic arkose
4k Carbonate-rich metasediment
4l Lithic arkose
4m Thinly bedded wacke, siltstone
4n Carbonate, ferruginous limestone
4o Wacke, thinly bedded argillaceous, quartz, plagioclase schist
4p Wacke with garnet porphyroblasts
4q Siltstone, massive

- 3 Intermediate to Felsic Metavolcanic Rocks
3a Sarcinite schist
3b Heterolithic breccia
3c Monolithic lapilli tuff
3d Tufaceous quartz eye, felsic-clast senecite schist
3e Banded tuff with laminae
3f Massive flow
3g Monolithic breccia (felsic matrix, mafic clasts)
3h Porphyritic (felsic) flow
3i Felsic crystal tuff, intermediate
3j Porphyritic (quartz) flow
3k Sphrenitic flow
3l Breccia, felsic clasts in chert matrix

- 2 Mafic to Intermediate Metavolcanic Rocks
2a Massive flows
2b Piled flows
2c Chlorite schist
2d Heterolithic breccia
2e Monolithic breccia (mafic matrix, felsic clasts)
2f Porphyritic (felsic) flows
2g Massive medium-grained flows
2h Magnetite-bearing flows
2i Tufaceous chloritic schist
2j Piled porphyritic (felsic) flows
2k Varolitic flows
2l Amygdaloidal flows
2m Felsic quartz crystal tuff
2n Heterolithic breccia, lapilli size clasts
2p Breccia (mafic matrix, intermediate to felsic clasts)
2q Amphibolite
2r Laminated tuff, lapilli tuff
2s Crystal (felsic) tuff, crystal tuff
2t Talc-actinolite, actinolite rock
2u Monolithic breccia (mafic matrix, mafic clasts)
2v Laminated tuff
2w Lapilli tuff
2x Porphyritic (amphibole) flows
2y Tuff, chlorite schist with quartz

1 Early Felsic Plutonic Rocks

- 1a Apatite
1b Pegmatite
1c Diorite, quartz diorite
1d Trondhjemite
1e Trondhjemite, gneissic to massive
1f Leucocratic trondhjemite
1g Porphyritic biotite trondhjemite dikes

Massive Granitic Rocks

- 1h Apatite, pegmatite dikes
1i Diorite, quartz diorite
1j Trondhjemite
1k Granodiorite, trondhjemite (weakly foliated)
1l Porphyritic granodiorite
1m Massive quartz monzonite
1n Porphyritic quartz monzonite to granite

Gneissic Granitic Rocks

- 1o Apatite
1p Pegmatite
1q Diorite, quartz diorite
1r Trondhjemite
1s Trondhjemite, gneissic to massive
1t Leucocratic trondhjemite
1u Porphyritic biotite trondhjemite dikes

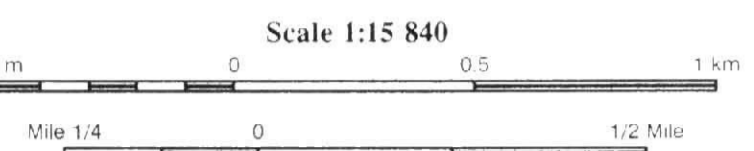
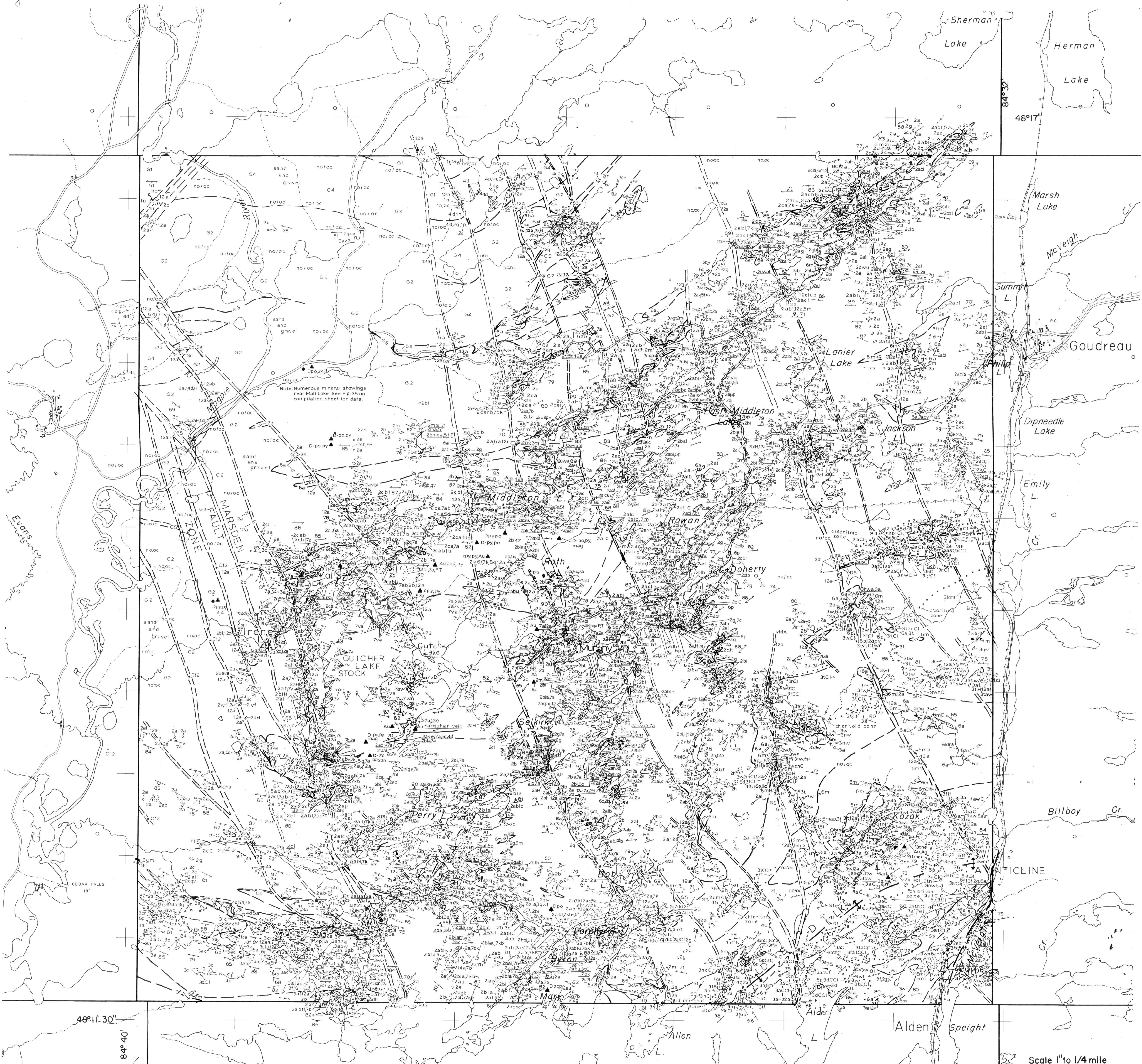
Metasedimentary Rocks

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1x Sulfide, commonly associated with subordinate siderite and chert
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Clastic Metasedimentary Rocks

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1ax Carbonate, ferruginous limestone
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1az Wacke with garnet porphyroblasts
1ba Siltstone, massive

- m mulion structure h horst
c clast clast mylonite
p pillow
s slickensides g gossan
c carbonized
fe iron staining
mt intersection of sil
f fold axis of minor fold
st stretched
bk breccia



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