

LEGEND

Note: Outcrops or areas of outcrop are shown by deep colour.

NEOHELIXIAN

Mary Jo Diabase
Diabase dikes

PALEOHELIXIAN

Shabogamo Intrusive Suite
Olivine gabbro, diabase.

APHEBIAN
WESTERN TROUGH

CENTRAL TROUGH

EASTERN TROUGH

KANIAPISKAU SUPERGROUP

MONTAGNAIS INTRUSIVE SERIES

- Retty Peridotite
Peridotite
- Wakuach Gabbro
Rhyolite
- Glomeroporphyritic gabbro.
- Gabbro, diabase.
- Amphibolite, locally schistose or gneissic.

DOUBLET GROUP

- Willbob Formation
Pillow basalt, minor tuff and pillow breccia.
- Thompson Lake Formation
Banded siltstone and black slate, chloritic siltstone.
- Murdoch Formation
Chlorite and sericite phyllite; chloritic siltstone, mafic tuff and lava.

KNOB LAKE GROUP

Upper Knob Lake Group

Tamarack River Formation

- 13d Red arkose and siltstone.
 - 13c Green and red siltstone, mudstone and minor red sandstone.
 - 13b Red arkose and siltstone, dolomitic arkose and minor pebbly conglomerate. 13b₁, red algal dolomite and arkose.
 - 13a Green-gray dolomitic siltstone and mudstone.
- Not present in map area

FERRIMAN SUBGROUP

Menihok Formation
Gray shale and siltstone, black shale.

Gray pyritic siltstone, quartzite and shale. Minor conglomerate, shale and tuff. 12d₁, pyritic black argillite.

Tuffaceous graywacke and siltstone; gray and black slate.

Mafic lava and tuff.

Sokoman Formation

Tuffaceous iron formation.

Nimish Formation

Basalt lava interbedded with jasper bearing volcanogenic conglomerate. Includes numerous thin sills. 10a, pillow basalt, and pillow breccia. 10b, mafic tuff and tuffaceous siltstone.

Cherty iron formation. Includes basal black shale unit previously known as Ruth Formation.

10c, Felsic-intermediate lavas and rhyolite bearing conglomerate.

10d, Gabbro intrusives.

Wishart Formation

Orthoquartzite, quartzite and siltstone, minor chert.

Gray, black and white chert; orthoquartzite and minor iron formation.

Lower Knob Lake Group

ATTIKAMAGEN SUBGROUP

Fleming Formation

Chert breccia, minor shale and quartzite.

Gray, black and red shale

Dolly Formation

Gray shale and siltstone.

Denault Formation

Undifferentiated dolomite

Massive cream dolomite; brown laminated and crossbedded dolomite; minor conglomerate

Interbedded dolarenite, dololite and dolomite-breccia.

Stromatolitic dolomite.

Gray dolomite, micaceous limestone; interbeds of mafic lava and tuff.

Calcareous shale and siltstone; quartzite.

Biotite phyllite and schist, locally tuffaceous. 5d₁, orthoquartzite.

Le Fer Formation

Gray shale, siltstone and graywacke; partly tuffaceous.

Pillow basalt and tuff.

SEAWARD SUBGROUP

Undifferentiated Seward Subgroup

Red and gray sandstone

Sawyer Lake Formation

Purple sandstone and/or orthoquartzite.

Red-purple shale, siltstone

Red-gray sandstone, minor algal dolomite.

4f₁, Biotite phyllite-schist.

4f₂, Orthoquartzite.

4f₃, Banded chlorite-sericite schist.

Snelgrove Lake Formation

Red and gray arkose sandstone, quartz granule conglomerate, minor red shale.

Discovery Lake Formation

Gray feldspathic sandstone, granule conglomerate.

Leucogranite, mylonitized granite.

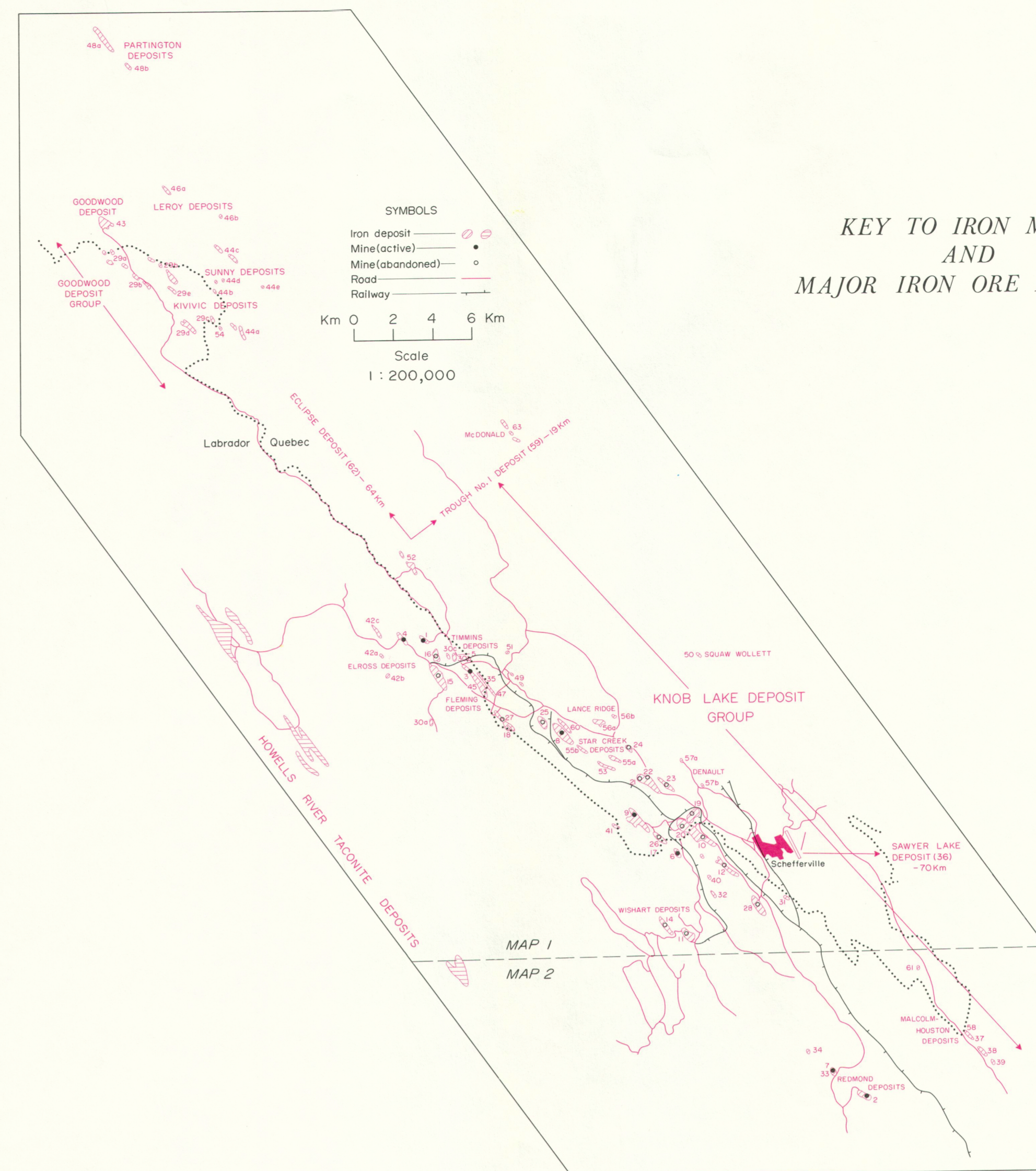
ARCHEAN OR APHEBIAN

ARCHEAN
ASHUANUPI METAMORPHIC COMPLEX

Hypersthene bearing granitoid gneisses.

EASTERN BASEMENT
METAMORPHIC COMPLEX

Granodiorite-tonalite gneisses, locally mylonitized. 2a, foliated granite. 2b, biotite gneiss. 2c, mixed unit of retrogressed amphibolite and tonalite-granodiorite gneiss.



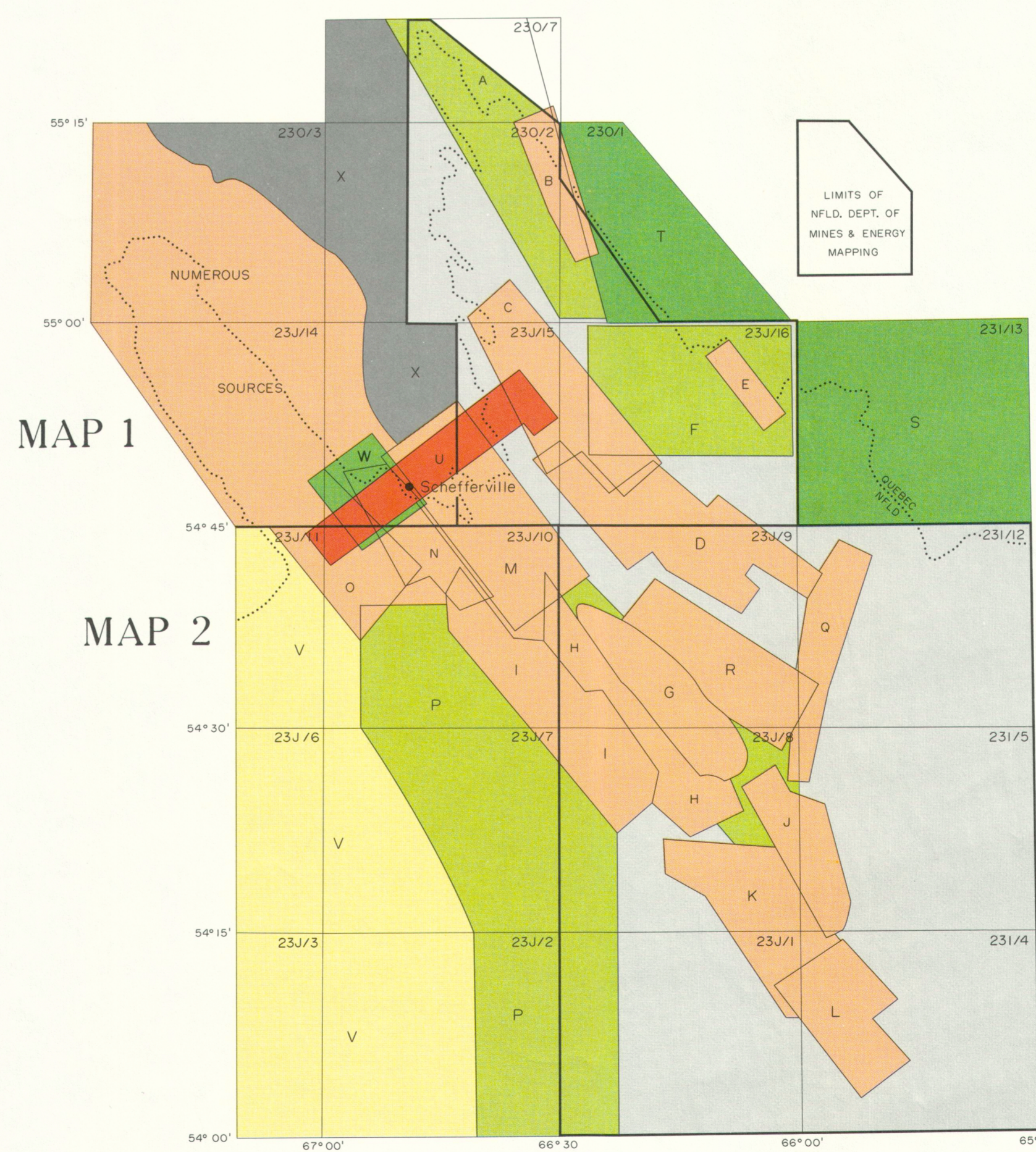
KEY TO IRON MINES
AND
MAJOR IRON ORE DEPOSITS

KEY TO IRON MINES & MAJOR SOFT ORE DEPOSITS
(STATUS 1979)

Labrador	Quebec	Labrador	Quebec
Present Producers (Open Pit)	Present Producers (Open Pit)	Major Soft Ore Deposits	Major Soft Ore Deposits
1 Timmins No. 6 Mine	8 Knox Mine (Fleming 8 dep.)	28 James Mine (Ruth Lake extn.)	43 Goodwood No. 1
2 Redmond No. 1 Mine (Redmond 1 dep.)	9 Ferriman No. 1N Mine (Ferriman 1 dep.)	29a,b,c,d,e Kivivic 1, 2, 3N, 4, 5	44a,b,c,d,e Sunny Lake No. 1, 2, 3, 4, & 5
3 Timmins No. 3N Mine		30a,b,c Timmins No. 5, 7, 8	45 Timmins No. 3S
4 Timmins No. 4 Mine		31 Knob Lake No. 1	46a,b Leroy No. 1 & 2
5 Timmins No. 7 - scheduled for production		32 Ruth Lake No. 8	47 Fleming No. 7S
6 Ruth Lake No. 9 Mine		33 Redmond No. 2B	48a,b Partington No. 1 & 2
7 Redmond No. 2 Mine		34 Redmond No. 5	49 Fleming No. 9
		35 Fleming No. 7N	50 Squaw Wollett No. 1
		36 Sawyer Lake No. 1	51 Sawmill No. 1
		37 Houston No. 1	52 Barney No. 1
		38 Houston No. 2S	53 Ferriman No. 4
		39 Houston No. 3	54 Kivivic No. 3S
		40 Green Lake No. 1	55a,b Star Creek No. 2 & 3
		41 Ferriman No. 7	56a,b LanceRidge No. 1 & 2
		42a,b Eross No. 2 & 3	57a,b Denault No. 1 & 2
		42c Howse No. 1	58 Houston No. 2N
			59 Trough No. 1
			60 Fleming No. 6
			61 Malcolm No. 1
			62 Eclipse No. 1
			63 McDonald No. 1

*mineable reserves remain

MAJOR COMPILATION SOURCES
AND
SCALE OF MAPPING



MAJOR COMPILATION SOURCE	SCALE OF MAPPING
IOCC - LME	1:100,000 SCALE
A) Hurd, 1950	Newfoundland Department of Mines and Energy
B) Bloomer, 1955	Quebec Department of Natural Resources (QDNR)
C) Burgess, 1951	
D) Hagen, 1952	
E) Bloomer, 1954	
F) Hoag, 1971	
G) Stevenson, 1952 and Fawley, 1946	
H) Perrault, 1952	
I) Usher, 1953	
J) Kavanagh, 1952	
K) Meliherski, 1952	
L) Crouse, 1952	
M) Gilman, 1950	
N) Stocken, 1949	
O) Perrault, 1951	
P) Mauvette, 1951	
Q) Dufresne, 1949	
R) Slipp, 1952	
S) Donaldson, 1966	
T) Frarey, 1967	
U) Harrison et al., 1972	
V) Frarey, 1961	
W) Gross, 1968	
X) Dimroth, 1978	
Iron Ore Company of Canada (IOCC); Labrador Mining and Exploration Company (LME).	1:250,000 - (1" = 4 miles) SCALE
Geological Survey of Canada (G.S.C.)	G.S.C.
QDNR	
IOCC - LME	
GSC	

FIELD WORK RELIABILITY DIAGRAM FOR AREA COVERED BY
NEWFOUNDLAND DEPARTMENT OF MINES & ENERGY MAPPING

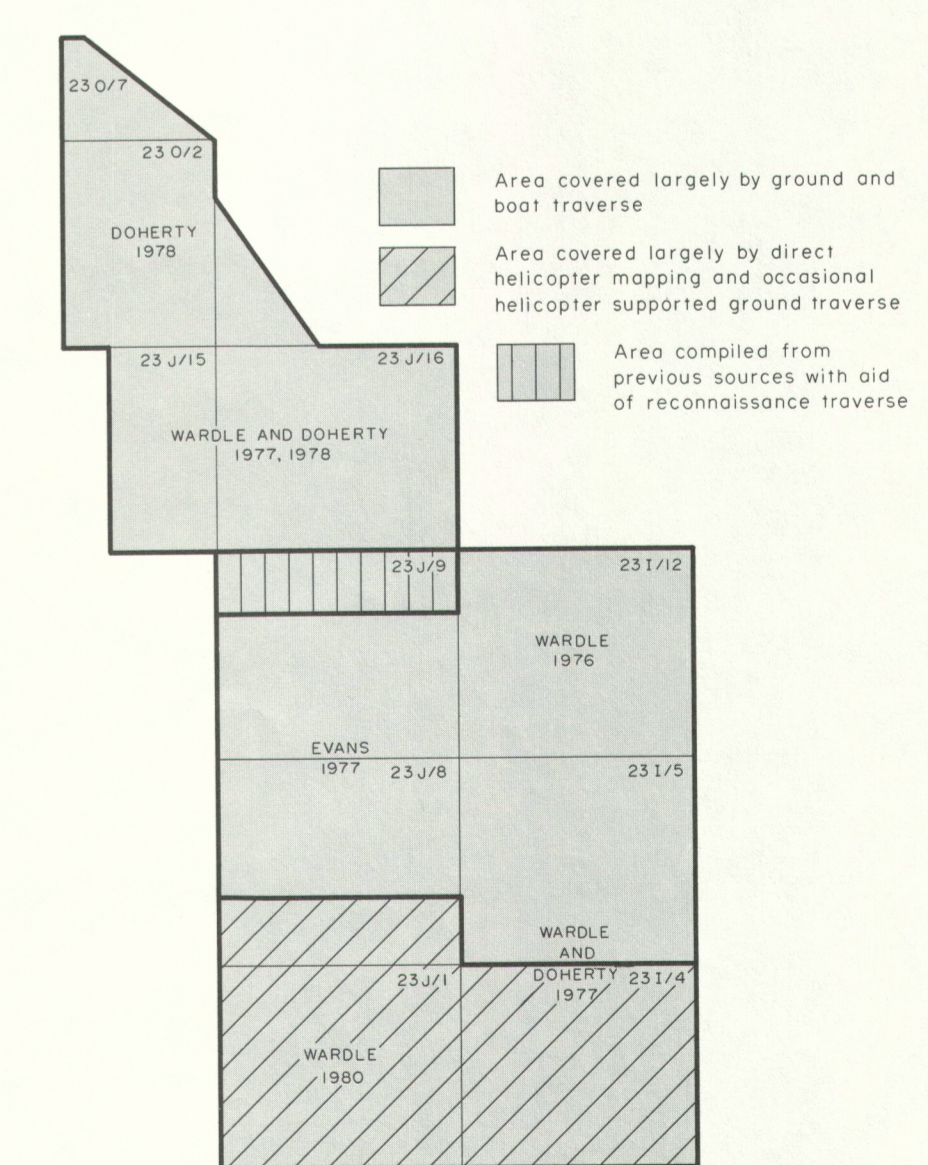


FIG. 1 LEGEND TO ACCOMPANY MAPS 1 AND 2,
MAPS 82-5 - 82-6