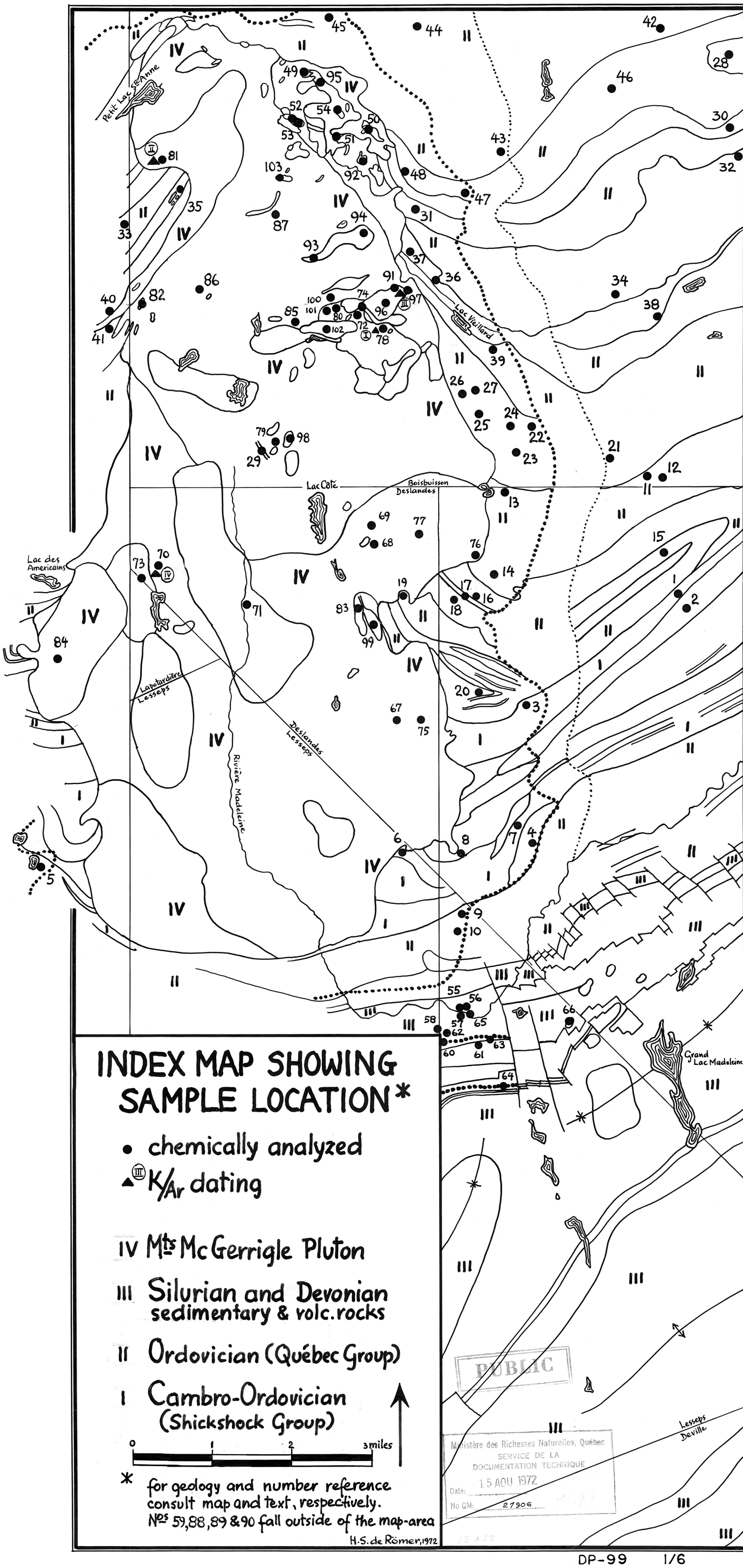


INDEX MAP SHOWING SAMPLE LOCATION*

- • chemically analyzed
- ▲ (III) K/Ar dating

IV Mts McGerrigle Pluton

III Silurian and Devonian sedimentary & volc. rocks

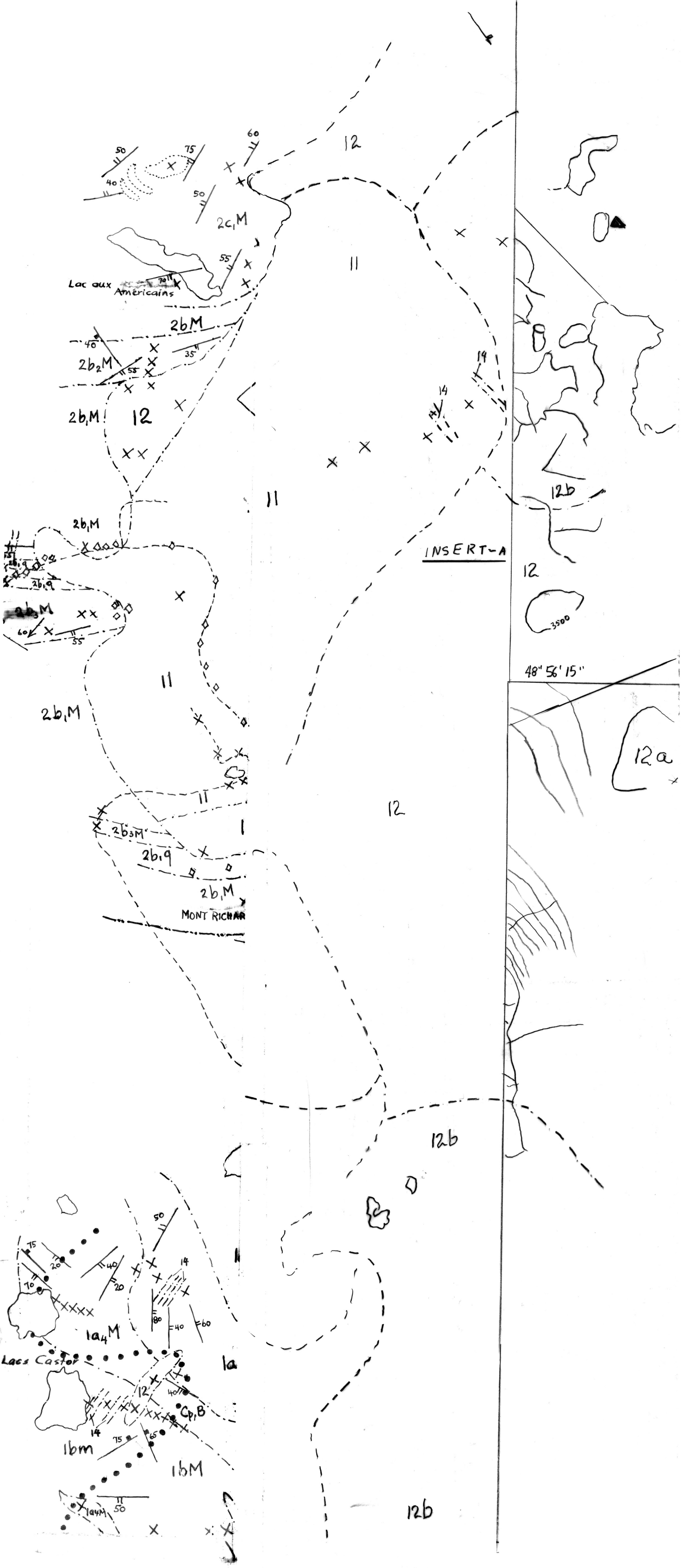
II Ordovician (Québec Group)

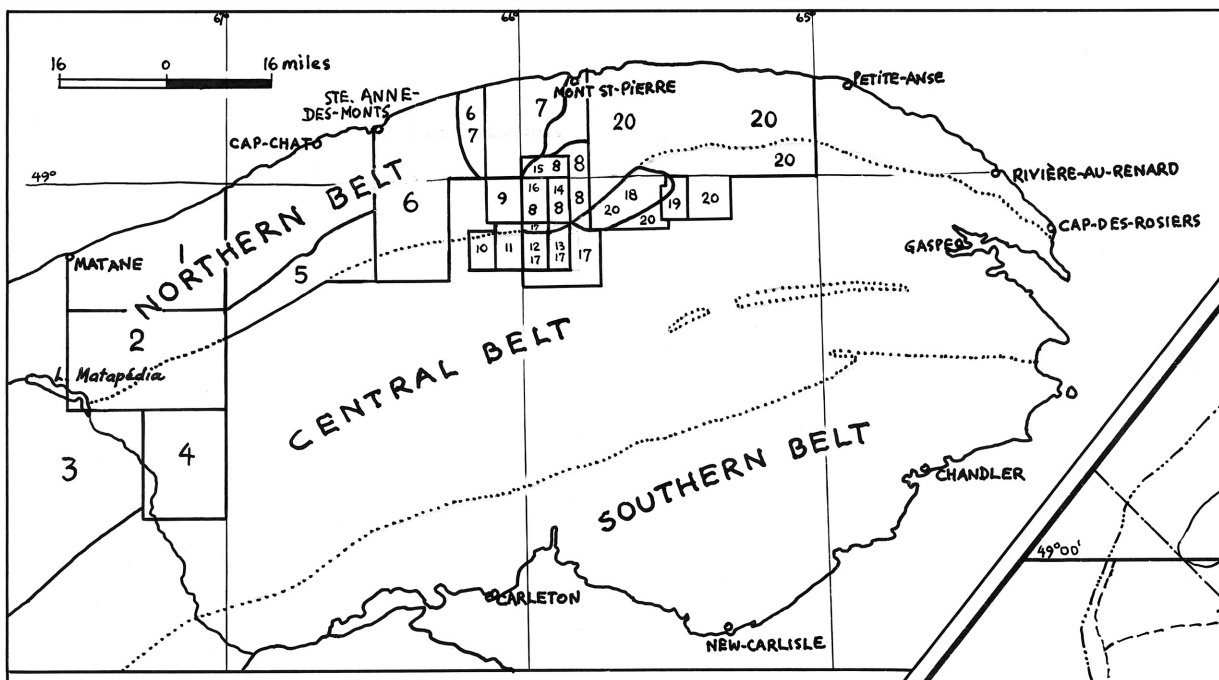
I Cambro-Ordovician (Shickshock Group)

0 1 2 3 miles

* for geology and number reference consult map and text, respectively.
Nos 59, 88, 89 & 90 fall outside of the map-area

H.S. de Römer, 1972


12
11
2c,M
Lac aux Américains
2bM
2b2M
2b,M
12
11
2b,M
2b,9
2b3M
60
55
11
2b,M
MONT RICHAR
INSERT-A
12b
12
3500
48° 56' 15"
12a
12
1
2b3M
2b,9
2b,M
12b
50
75
20
40
70
14
80
40
60
1a4M
Lacs Castor
1a
12
40
Cp,B
14
75
65
1bm
1bM
11
50
1a4M
12b



LOCATION MAP SHOWING THE BROAD SUBDIVISIONS OF GASPE PENINSULA AND PREVIOUS WORK BY FIELD PARTIES OF THE QUEBEC DEPARTMENT OF NATURAL RESOURCES (1931-1970)

GEOLOGICAL WORK BY:

[1] J. Béland, 1957; [2] N.C. Ollerenshaw, 1967; [3] J. Béland, 1960; [4] C.W. Stearn, 1965; [5] C.R. Mattinson, 1964; [6] H.W. McGerrigle, 1954; [7] I.W. Jones, 1934; [8] I.W. Jones, 1933; [9] P. Girard, 1965; [10] J.L. Robert, 1966; [11] J.L. Robert, 1966; [12] J.L. Robert, 1967; [13] H.S. de Römer, 1969; [14] H.S. de Römer, 1970; [15] H.S. de Römer (in print); [16] H.S. de Römer (in print) [17] I.W. Jones, 1931; [18] I.W. Jones, 1932; [19] J.J. Brummer, 1966; [20] H.W. McGerrigle, 1959.

REGIONAL GEOLOGIC MAP OF THE MONT ALBERT-MONT VALLIERES-DE-ST.REAL-LAC MADELEINE-MONTS McGERRIGLE AREAS

(COUNTY GASPE-NORTH)

based on geology by J.L. Robert, P. Girard and H.S. de Römer

LEGEND

- MGP | mgp — Mts McGerrigle Pluton; MGP: red, coarse granite; mgp: hybrid rocks — contact-metam. aureole
- G — other granitic rocks — fold axes
- F — felsite — fault
- P — serpent. peridotite — thrust-fault
- D — devonian — mine or min. deposit
- S — silurian — ② K/Ar age determination
- LO — lower ordovician — road
- LOV — lower ordovician volcanics — township boundary
- CO — cambro-ordovician (Shickshock group) — prov. parc boundary

1, 2, 3 : J.L. Robert, 1966; 1966; 1967
4 : P. Girard, 1965
5 : H.S. de Römer (present report)

0 1 2 3 miles

PARTIE NORD

GM-27906

DP-99 4/6

Petit Lac Ste-Anne

Mont Ste-Anne

Mont Auclair

Rivière Ste-Anne

Lac St-Pierre

Ruisseau Parc-Edic

Ruisseau Michaud

Rivière Madeleine-Nord

Lac Paré

Lac Tanguay

Mont Jacques-Cartier

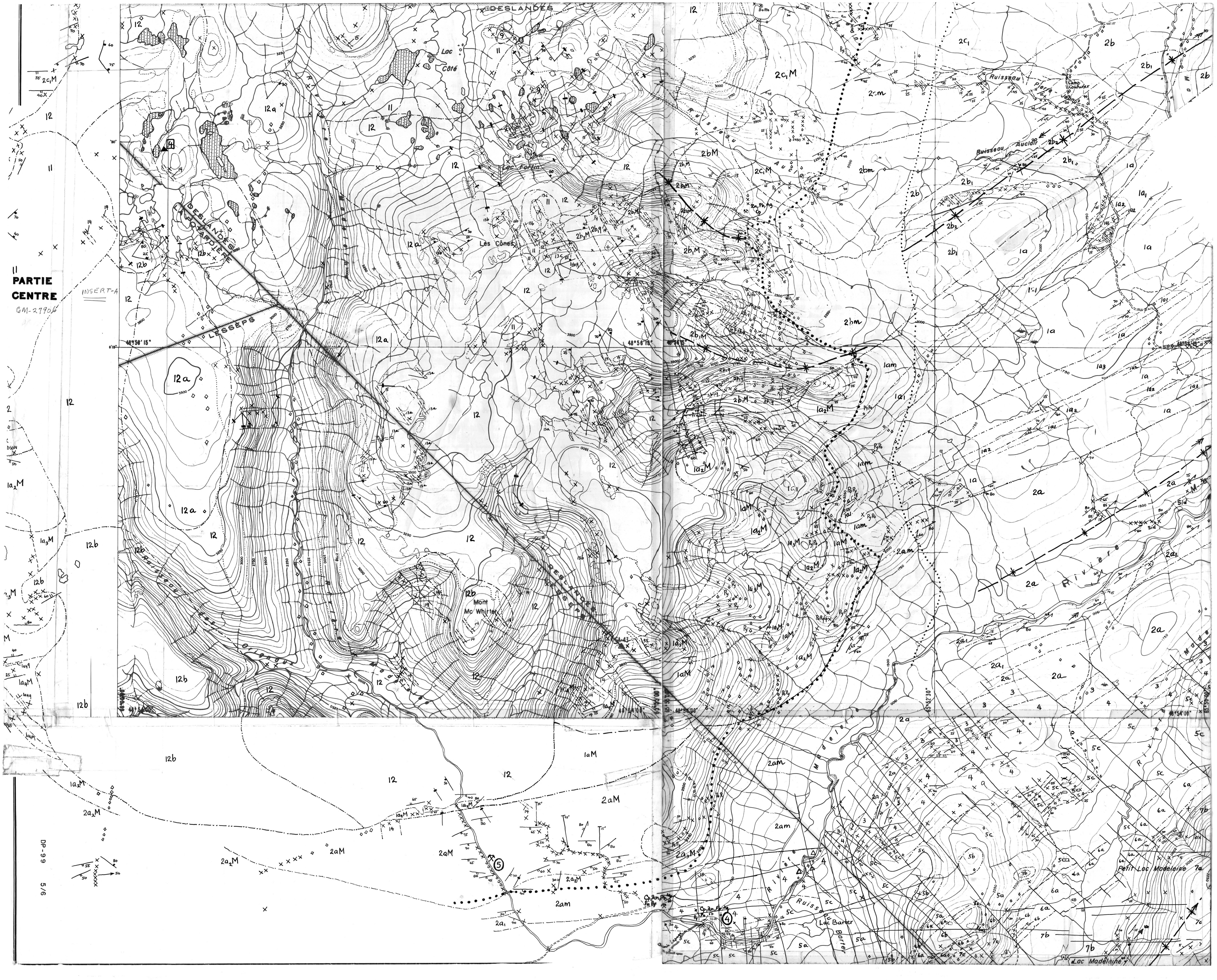
TOUR N° 16

GA-42

Ruisseau Vieillard

Lac Vieillard

BOISBUISSON


PARTIE
CENTRE
INSERT-A
GM-27906
DP-99 5/6
DESLANDES
LESSEPS
Lac Côté
Lac Fortin
Les Cônes
Mont Mc Whirter
Ruisseau Auclair
Camp Couturier
Petit Lac Madeleine
Lac Barter
Ruisseau Barter
Lac Madeleine
Rivière
48°50'15"
48°56'15"
48°54'00"
65°42'30"

PARTIE SUD

GM-27906

GEOLOGICAL MAP OF THE Mt JACQUES CARTIER-LAC MADELEINE AREA (COUNTY GASPE-NORTH)

L E G E N D

1000 0 1000 2000 3000 4000 5000 6000 7000 8000ft

INTRUSIVE ROCKS

DEVONIAN & YOUNGER

15 — lamprophyre dikes, porphyritic diabase dikes

14 — leucocratic granophyre dikes, aplites

13 — 13a: quartz veins; 13b: pegmatitic veins; 13c: nepheline syenite

12 — red, coarse granite, minor quartz-monzonite; 12a: granodiorite porphyry, minor granite porphyry; 12b: fine-to med.-grained granite

DEVONIAN & OLDER

11 — hybrid rocks; syenite & melasyenite; monzonite; minor quartz monzonite & granodiorite

10 — coarse metabasite

9 — felty & amygdaloidal, fine-grained metabasite

SEDIMENTARY & VOLCANIC ROCKS

LOWER DEVONIAN

YORK RIVER FORMATION

8 — quartzo-feldspathic wacke & arkose

GRANDE GREVE FORMATION

7 — 7a: cherty & silty or argillaceous limestone; 7b: silty or argillaceous limestone; 7c: quartz arenite; 7d: conglomerate and coquina; 7e: pyroclastic rocks and felsite

metamorphism		
contact		regional
inner zone	outer zone	

CAP BON-AMI FORMATION

6a: dark grey or black argillaceous and carbonaceous limestone; minor argil. or silty limestone; 6a1: garnetiferous skarn & cherty hornfels (altered argillaceous & carbonaceous limestone); 6b: pyroclastics, felsite; minor granophyre

6a1		6a
		6b

UPPER SILURIAN TO LOWER DEVONIAN

SAINT-LEON FORMATION

5a: calcareous siltstone; silty limestone; minor red, silty shales; 5a1: cherty hornfels (altered siltstone, minor altered felsite and pyroclastic rocks); 5b: pyroclastic rocks, felsite and granophyre; 5b1: cherty hornfels (altered pyroclastic rocks and felsite; minor altered siltstone; 5c: laminated, silty limestone; limestone-siltstone; limestone conglomerate

5a1		5a
5b1		5b
		5c

LOWER TO UPPER SILURIAN

SAYABEC FORMATION

4 — fossiliferous, reefy limestone; limestone pseudocongl.; dolomitized limestone

GM-27906

VAL BRILLANT FORMATION

3 — quartz-sandstone, minor conglomeratic sandstone

9/9 66-gD

CAMBRO-ORDOVICIAN

MID-ORDOVICIAN

QUEBEC GROUP

metamorphism		
contact		regional
inner zone	outer zone	

2a: calc. shale, slate & phyllite with interbeds of limestone; black slate & shale; limestone congl.
2a1: quartz sandstone
2am. calcareous schist & argillite
2aM: calcareous schist, crystalline limestone & minor pelitic hornfels; skarn
2a2M: massive, pelitic hornfels
2a3M: garnetiferous schist & garnetif. calc-silicate hornfels

2aM	2am	2a	2a1
2a2M			
2a3M			

2b: grey, arenaceous & oölitic limestone
2b1: black shale & phyllitic slate
2b2: dark-grey argillaceous limestone with shaly interbeds
2bm: calc. argillite & argillite
2bM: crystalline limestone
2b1M: spotted, pelitic hornfels; minor calc-silicate hornfels
2b1q: quartzite
2b2M: spotted, pelitic schist; calc-silicate hornfels; minor skarn
2b3M: calc-silicate hornfels

2bM	2bm	2b	
2b1M	2b1q	2b1	
2b2M		2b2	
2b3M			

2c: finely laminated black, green & grey slates, siltstones & shales
2c1: calc. siltstone; silty & arenaceous limestone; siltstone
2cm: argillite, occ. banded
2cM: spotted, pelitic hornfels
2cMc: cordierite hornfels; spotted, pelitic hornfels; minor calc-sil. hornfels
2c1M: calc-sil. hornfels & spot., pel. hornfels

2cM	2cMc	2cm	2c
2c1M			2c1

2d: quartz-feldspar conglomerate & interbeds of black shale & tuff
2d1: dark-grey siltstone
2dm: siltstone and argillite
2dM: quartz congl.; cherty hornfels
2d1M: massive, pelitic hornfels

2dM	2dm	2d
2d1M		2d1

2e: massive & amygdaloidal basalt & minor tuff
2em: metabasalt
2eM: spotted actinolite schist & metabasalt
2e1M: mica-rich rock

2eM	2e1M	2em	2e

2f: dk. grey, occ. calc. shales, siltstone & shale
2f1: grey limestone, shale; minor calc. siltstone
2f2: dk. grey & black slate; calc. shales
2fm: calcareous & silty argillite
2fM: spotted, pelitic & cherty hornfels; minor skarn
2f1M: spotted, pelitic hornfels; calc-sil. hornf. skarn; garnetif. mica schist
2f2M: spotted, pelitic hornfels; minor calc-silicate hornfels

2fM	2fm	2f
2f1M		2f1
2f2M		2f2

2g: impure quartz sandstone; interbedded green shales

		2g

2h: calc. sandstone & siltstone; interbed. grey & black shales & minor slates
2hm: calc. & silty argillites
2hM: cherty & pelitic hornfels
2h1M: skarn

2hM	2h1M	2hm	2h

SHICKSHOCK GROUP

1a: black slates & shales
1a1: quartzitic sandstone
1a2: purple & green slates
1a3: calc. slates with limestone interbeds
1am: argillite & calc. argillite; minor crystall. limestone & calc. schist
1aM: calc-silicate (loc. garnetif.) hornfels
1a1M: laminated diopside-scapolite hornfels
1a3M: garnetif. calc-silicate hornfels & skarn; minor calc-silicate hornfels
1a4M: spotted & massive, pelitic hornfels
1a4q: quartz sandstone; quartzite
1bm: massive & spotted basalt, minor pyroclastic rocks
1bM: metabasalt; hornb-schist; amphibolite

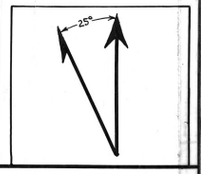
1aM	1am	1a
1a1	1a1	1a1
1a2M	1am	1a2
1a3M		1a3
1a4M	1a4q	
1bM	1bm	

SYMBOLS

- a) single outcrop; b) outcrop area
- rock débris
- geol. contact: a) observed; b) inferred
- bedding: a) horiz.; b) inclined; c) vertical; compositional layering
- cleavage: a) S1; b) S2; c) S3; d) unknown
- lineation: a) L1; b) L2; c) L3; d) unknown
- antiel. axis & plunge
- syncl. axis & plunge
- joints: a) inclined; b) vertical
- breccia
- fracture (inferred)
- alteration zone: a) inner limit; b) outer limit
- prospect
- K/Ar age determ.
- diamond drill hole: a) vertical; b) inclined
- glacial striae
- motor road
- lumber rd. & trail
- lumber camp
- park boundary
- power line
- lakes & swamps

MINERALIZATION

Cu	native copper
Ch	chalcocite
Cp	chalcopyrite
B	bornite
M	malachite
Py	pyrite
Po	pyrrhotite
Sid	siderite
Zn	sphalerite
Pb	galena
mag.	magnetite
H	hematite
Ag	silver



Geology by H. S. de Römer, 1972