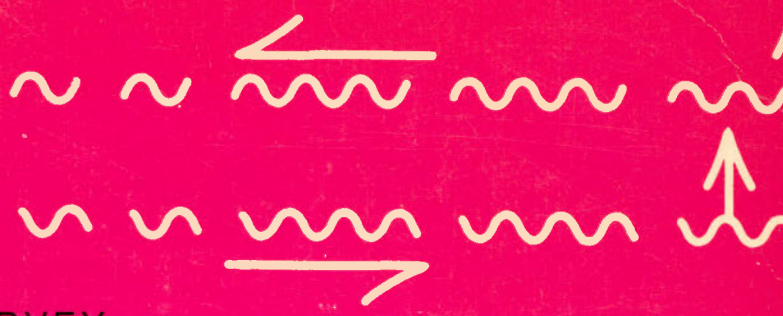
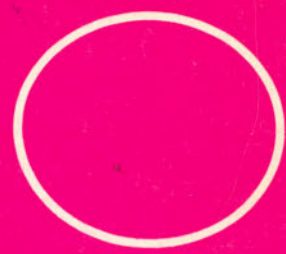


QE
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S8
1975
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GEOLOGICAL SURVEY
OF CANADA



STANDARDS AND SPECIFICATIONS
FOR THE PREPARATION OF
GEOLOGICAL MAPS



REVISED EDITION, 1975



DEPARTMENT OF ENERGY, MINES AND RESOURCES



GEOLOGICAL SURVEY
OF CANADA

STANDARDS AND SPECIFICATIONS FOR THE PREPARATION OF GEOLOGICAL MAPS

Designed and compiled by
P. Debain
with the assistance of
G. J. Barbary
B. G. Hill
G. H. Lavigne
and the late
M. Bernard

Revised edition, 1975

DEPARTMENT OF ENERGY, MINES AND RESOURCES

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Information Canada
Ottawa
1975

FOREWORD

The purpose of this manual, the first edition of which was printed in 1971, is to standardize the cartographic preparation of maps published by the Geological Survey of Canada at scales of 1: 50 000, 1: 250 000, 1: 500 000 and 1: 1 000 000. For larger and smaller scale thematic maps the standards may be applied in a more general manner. It was designed primarily for internal use but is now being accepted extensively by other organizations as a cartographic guide. This list of standardized geological symbols has been developed over a period of twenty-five years. As no list can be regarded as exhaustive, further revisions and additions can be expected periodically.

This manual, prepared and revised by cartographers of the Geological Cartography Section reflects their knowledge and experience in dealing with cartographic problems. It is hoped that its use as a text and reference book in schools, universities and industry will help to develop uniformity in the preparation of geological maps.

E. P. Nunn,
Acting Superintendent,
Geological Cartography Section.

Ottawa, 1975

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All cutter sizes in thousandths of an inch, other measurements in hundredths or tenths

All type measurements are in points

TITLE

English map

Helvetica Roman	10pt.	MAP 1247A	.3"	
	12	GEOLOGY		18pt.
Helvetica	24	SOUTHERN ELLESMERE		32
Bold	24	AND NORTH KENT ISLANDS		30
Helvetica Roman	14	DISTRICT OF FRANKLIN		20
		Scale	4"	

Stock 19a to 19f

To be used when title is over 4" in length

Helvetica Roman	10 pt	MAP 1137A	.3"	
	12	GEOLOGY		18pt.
Helvetica Bold	24	BEAVERLODGE		32
Trade Gothic Light C.C.	12	(East Half) *		16
Trade Gothic Light	10	WEST OF THIRD MERIDIAN		18
	14	SASKATCHEWAN		22
		Scale	.35"	

Stock 19a to 19f

Helvetica Roman	10pt.	MAP 1100A	.3"	
	12	GROUNDWATER PROBABILITY		20pt.
Helvetica Bold	24	VIRDEN		32
Trade Gothic Light	10	WEST OF PRINCIPAL MERIDIAN		14
	14	MANITOBA		22
		Scale	.35"	

Stock 19a to 19f

* When geological map is published in two halves, the same map name should apply to both halves. East half or west half should appear under the map name in the title

TITLE

Bilingual map

Helvetica Roman 10pt. MAP 1038A CARTE .3"

12 SURFICIAL GEOLOGY-GÉOLOGIE DES DÉPÔTS MEUBLES 18pt.

Helvetica Bold 24 OTTAWA 32

14 ONTARIO-QUÉBEC 18

Stock 19a to 19f Scale Échelle .35"

Stock 135 99° 00' .2" Cut 5-25-5-35-5

Helvetica Roman 10pt. MAP 31-1963 CARTE .3"

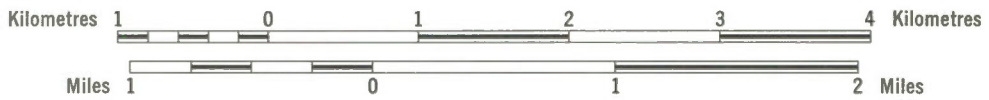
Trade Gothic Light 10 PAPER 63-20 ÉTUDE 16pt.

12 GEOLOGY - GÉOLOGIE 20

Helvetica Bold 24 MICHIKAMAU LAKE 32

14 QUÉBEC-NEWFOUNDLAND 18

Stock 19a to 19f Scale 1:50,000 .35"



Universal Transverse Mercator Projection
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*Type of projection used should be indicated on each map

Note:

When two full N.T.S. sheets have been combined into one map and the names of these sheets are combined in the title they should be separated by a hyphen.

When a full N.T.S. sheet is combined with a portion of another one and the names of the two are combined in the title they should be connected by an "and"

TITLE

English map

	Stock 135	99°00'	.2"	Cut 5-25-5-35-5
Helvetica Roman	10pt.	MAP 35-1965	.3"	
	12	GEOLOGY		18pt.
Helvetica	24	SOUTHERN ELLESMERE		32
Bold	24	AND NORTH KENT ISLANDS		30
	14	DISTRICT OF FRANKLIN		20
	Stock 19a to 19f	Scale	4"	

To be used when title is over 4" in length

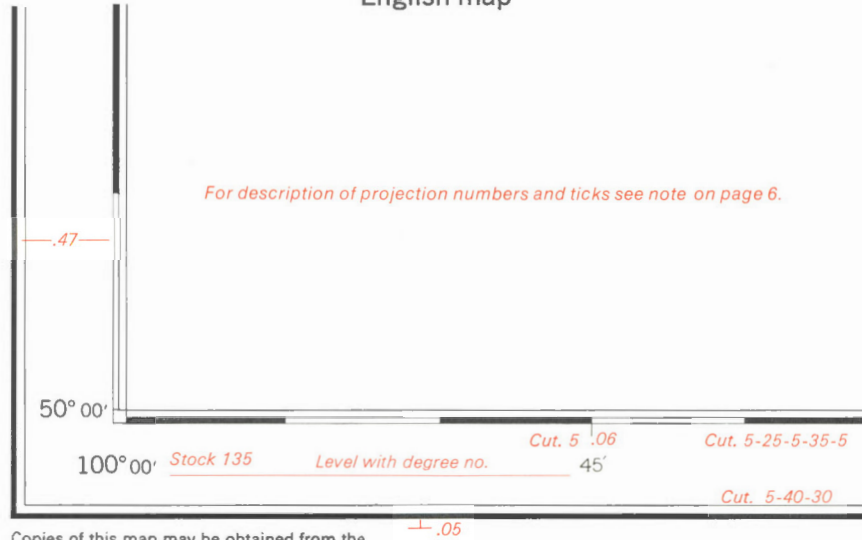
	Stock 135	99°00'	.2"	
Helvetica Roman	10pt.	MAP 35-1965	.3"	
Trade Gothic Light	10	PAPER 63-20		16pt.
	12	GEOLOGY		20
Helvetica Bold	24	FLATHEAD		32
Trade Gothic Light	10	WEST OF PRINCIPAL MERIDIAN		14
	14	BRITISH COLUMBIA - ALBERTA		22
	Stock 19a to 19f	Scale	.35"	

	Stock 135	99°00'	.2"	
Helvetica Roman	10pt	MAP 35-1965	.3"	
	12	GROUNDWATER PROBABILITY		20pt
Helvetica Bold	24	VIRDEN		32
Trade Gothic Light	10	WEST OF PRINCIPAL MERIDIAN		14
	14	MANITOBA		22
	Stock 19a to 19f	Scale	.35"	

BORDER

SOUTHWEST CORNER

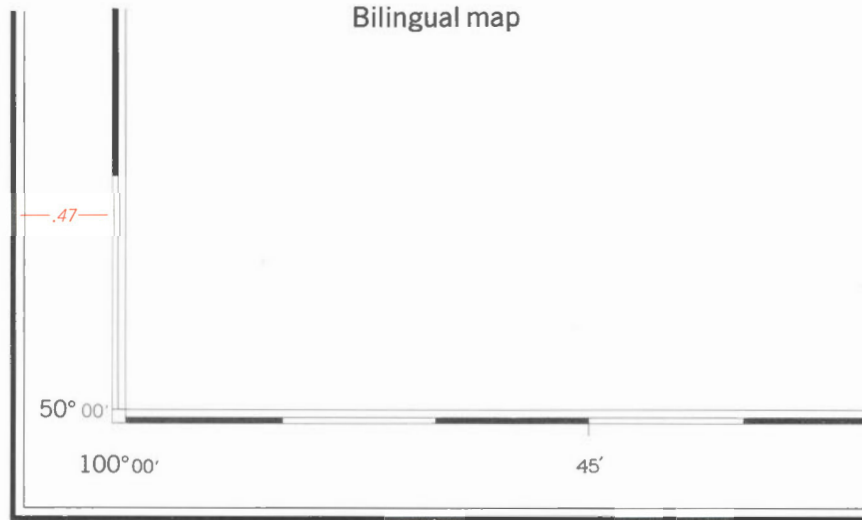
English map



Stock 420F Copies of this map may be obtained from the Geological Survey of Canada, Ottawa

Index map location see page 7

Bilingual map



Stock 420F Copies of this map may be obtained from the Geological Survey of Canada, Ottawa
Printed by the Surveys and Mapping Branch, 1974

BORDER

SOUTHEAST CORNER

English map

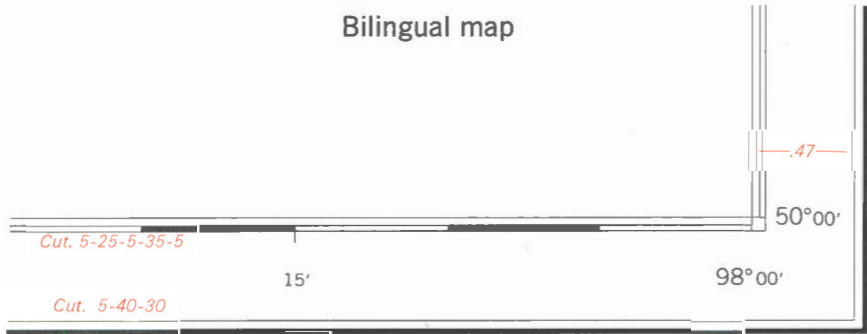


9 Pt. Helvetica Roman REFERENCE
 (When necessary for topographical or geological reference)

Helvetica Roman 7 Pt. MAP 120 A
 Helvetica Bold 9 Pt. McLEOD LAKE 14 Pt.
 Helvetica Bold 8 Pt. BRITISH COLUMBIA 14 Pt.

N.T.S. map location: see page 8

Bilingual map



On peut obtenir des exemplaires de cette carte en s'adressant à la Commission géologique du Canada, Ottawa
 Imprimé par la Direction des levés et de la cartographie, 1974

3 Miles
 5 Kilomètres

The folding title should always appear in the southeast corner of the map, in line vertically and horizontally with the limit of work, projection numbers, descriptive notes, scale, notes etc.

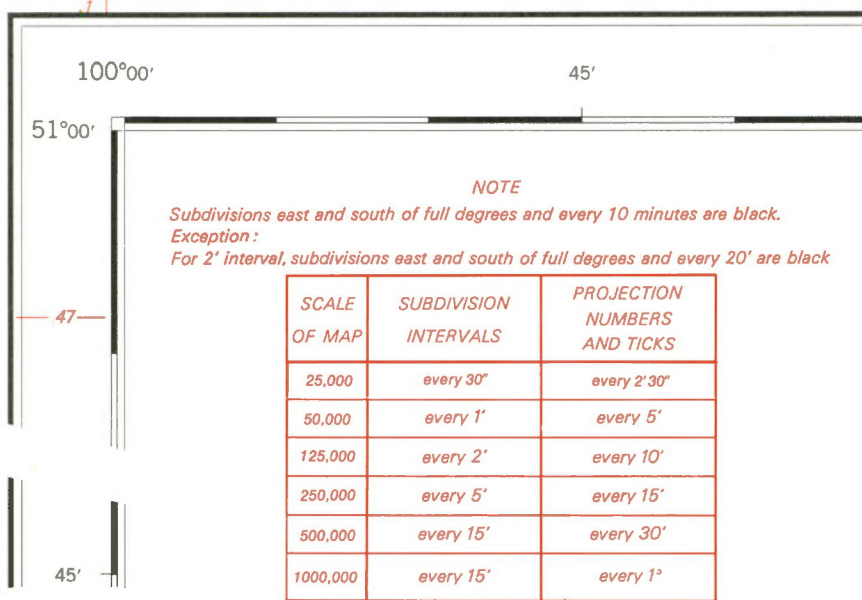
MAP 1229 A CARTE
 LEAF RIVER
 QUÉBEC

BORDER

NORTHWEST CORNER

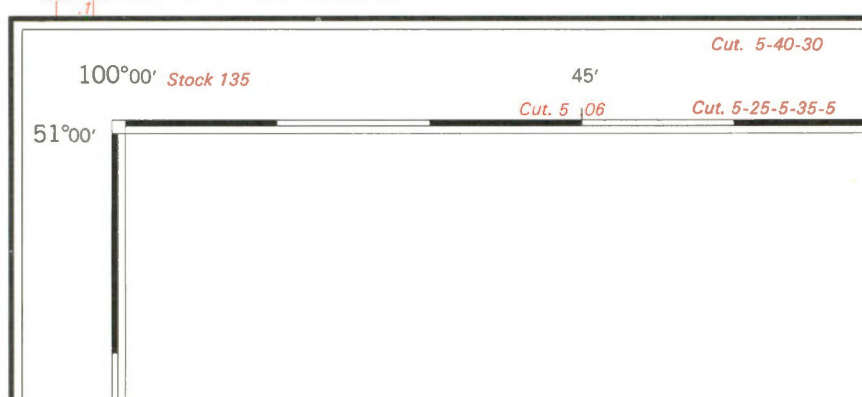
English map

PROVISIONAL EDITION 12 Pt. Helvetica Roman



Bilingual map

PROVISIONAL EDITION
 ÉDITION PROVISOIRE 10 Pt. Helvetica Roman

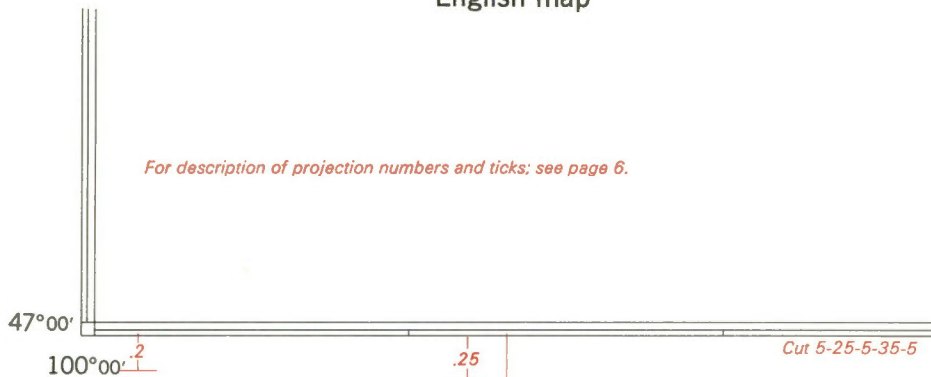


BORDER

SOUTHWEST CORNER

English map

For description of projection numbers and ticks: see page 6.



Copies of this map may be obtained from the Geological Survey of Canada, Ottawa

At convenience



Bilingual map



Copies of this map may be obtained from the Geological Survey of Canada, Ottawa
Printed by the Surveys and Mapping Branch, 1974

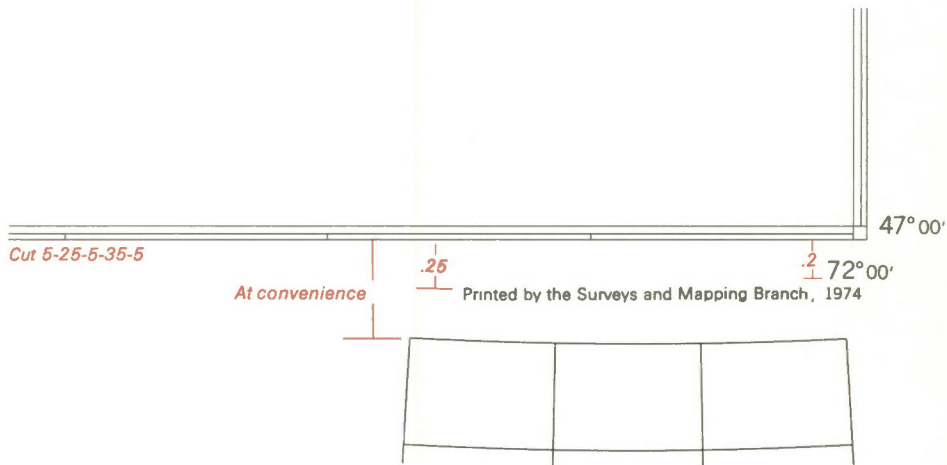
At convenience



BORDER

SOUTHEAST CORNER

English map



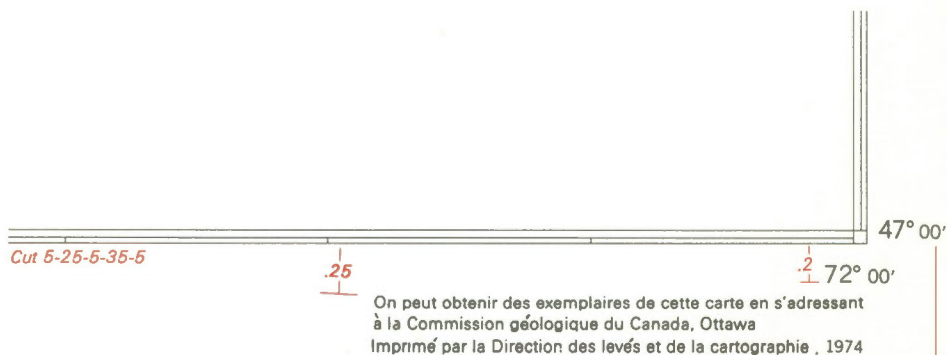
For position of folding title under index when both are in the southeast corner see page 11

Helvetica Roman 7 Pt. **MAP 17-1968**

Helvetica Bold 9/14 Pt. **ALBERNI** 14 Pt.

Helvetica Bold 8/14 Pt. **BRITISH COLUMBIA** 14

Bilingual map



3 Miles

5 Kilomètres

The folding title should always appear in the southeast corner of the map, in line vertically and horizontally with the limit of work, projection numbers, descriptive notes, scale, notes etc.

MAP 18-1967 CARTE

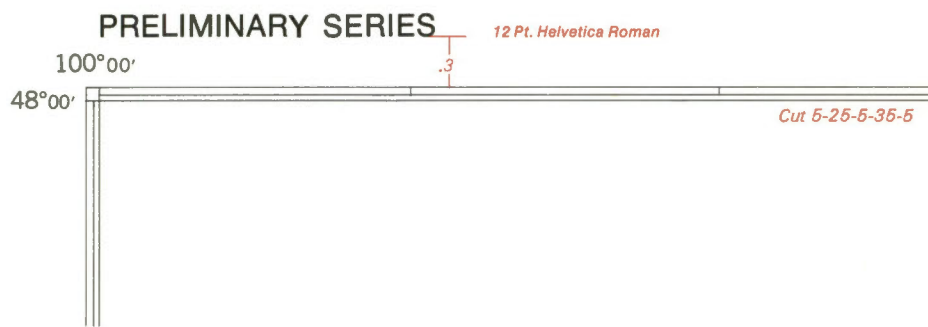
LA PATRIE - SHERBROOKE

QUÉBEC

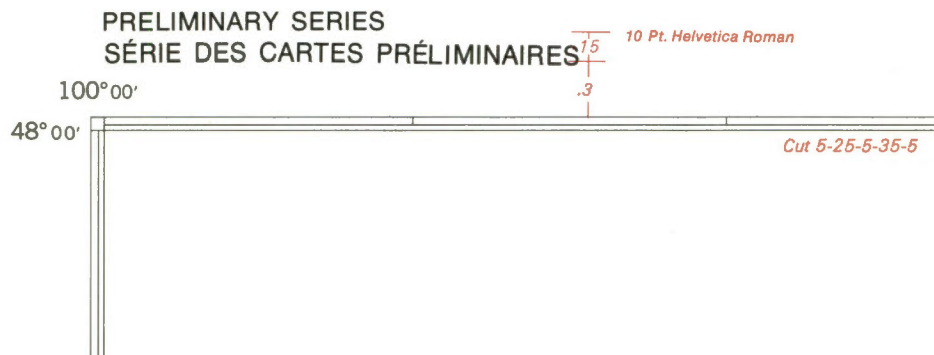
BORDER

NORTHWEST CORNER

English map



Bilingual map



BORDER CENTRE HEADING AND CROSS-SECTION English map

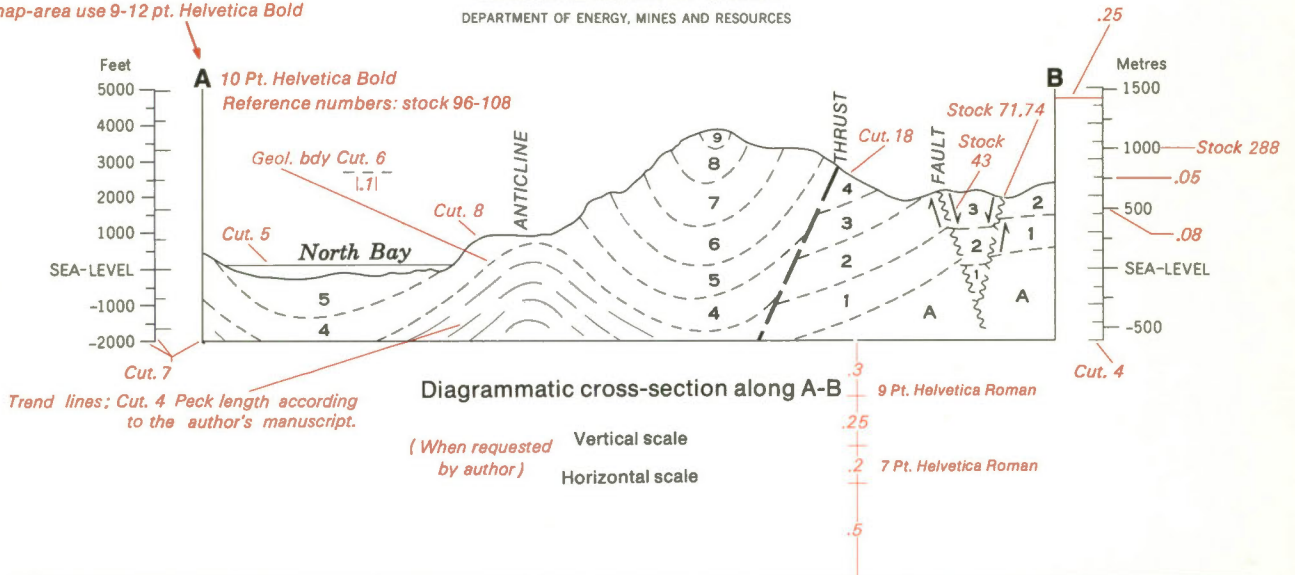


GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

When there is no cross-section, place department heading .4" from border at centre of the map.

Heading stock 4.5

Inside map-area use 9-12 pt. Helvetica Bold



Bilingual map

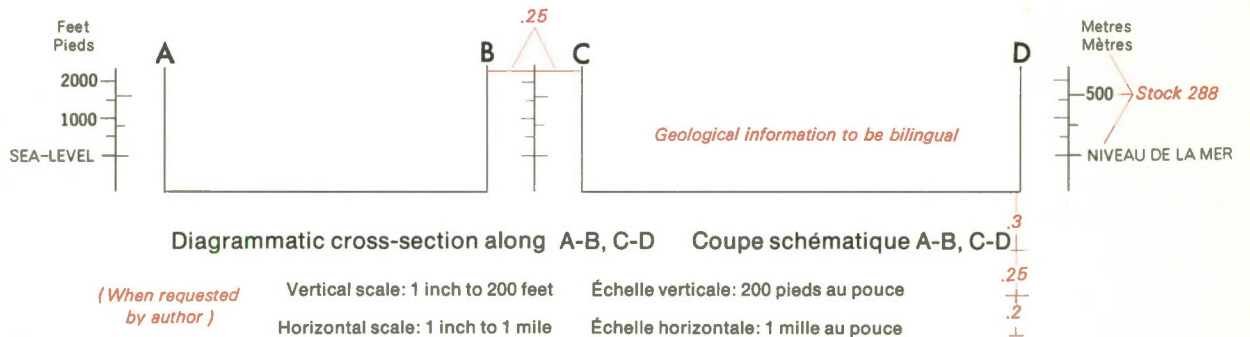
GEOLOGICAL SURVEY OF CANADA



COMMISSION GÉOLOGIQUE DU CANADA

DEPARTMENT OF ENERGY, MINES AND RESOURCES
MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES

Heading stock 410F (for small half sheet use 411F)

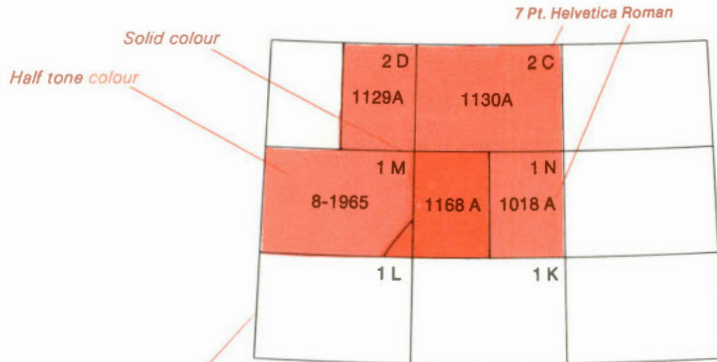


N.T.S. INDEX

Only maps of the same scale and the same categories (geology; surficial geology; etc) should be illustrated in N.T.S. index
 (1 inch to 4 miles and 1:250,000 or 1 inch to 1 mile and 1:50,000 are considered same scale)

See page 39 for position of N.T.S. index

FINAL MAP



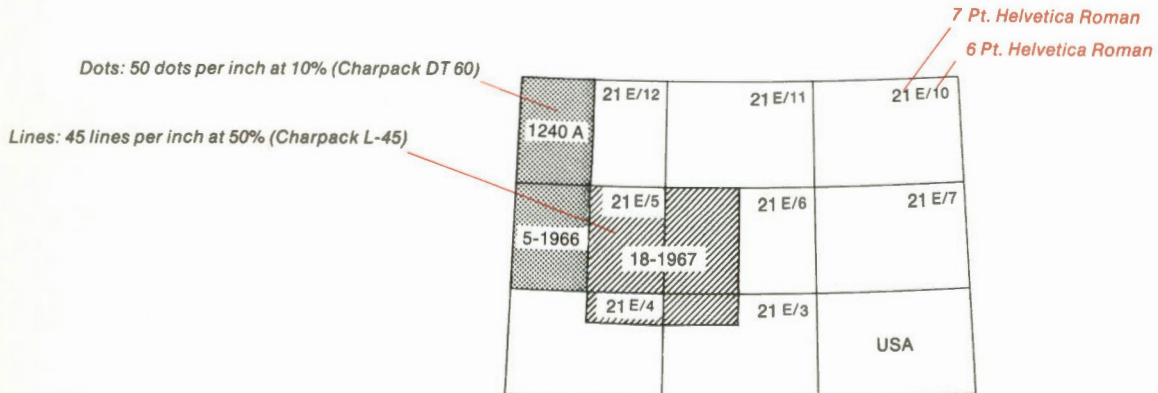
NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO GEOLOGICAL SURVEY OF CANADA MAPS

Helvetica Roman 7 Pt. MAP 1168 A .2
 Helvetica Bold 9/14 Pt. **WHITBOURNE** 14 Pt.
 Helvetica Bold 8/14 Pt. **NEWFOUNDLAND** 14

Use stock 434 (434A is an alternative to be used over latitude 60°, see page 13)

Folding title appears under index only when both are in the extreme southeast corner of the map.

PRELIMINARY MAP



NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO GEOLOGICAL SURVEY OF CANADA MAPS
 SYSTÈME NATIONAL DE RÉFÉRENCE CARTOGRAPHIQUE ET INDEX DES CARTES DE LA COMMISSION GÉOLOGIQUE DU CANADA

MAP 18-1967 CARTE
LA PATRIE - SHERBROOKE
QUÉBEC

INDEX MAP

Final map (English)

See page 39 for position of N.T.S. index



INDEX MAP

Stock 450 (thin film)

Block should be plotted and drawn according to map size.
Minimum size of block .05x.05. Under minimum size use
circle. Only circle should be used from stock 450A



Map-area to be shown in colour.

Preliminary map (Bilingual)



INDEX MAP—LIEU DE LA CARTE

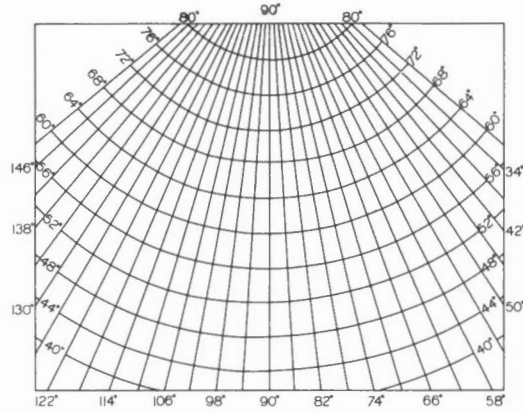
Stock 450 (thin film)

Block should be plotted and drawn according to map size.
Minimum size of block .05x.05. Under minimum size use
circle. Only circle should be used from stock 450A



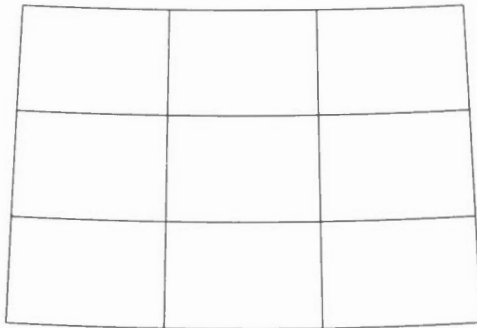
Ruling S-21

Grid to locate map-area on index map

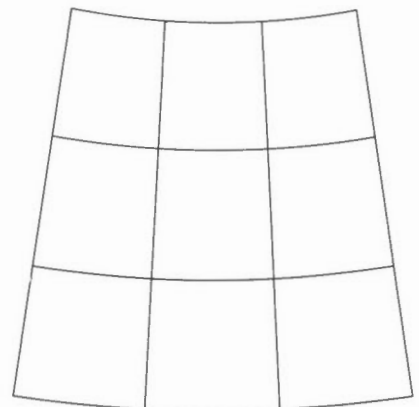


When using projection grid, preference should be given to corresponding topography inside map-area























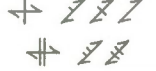



Available N.T.S. Indexes



NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND
INDEX TO GEOLOGICAL SURVEY OF CANADA MAPS
SYSTÈME NATIONAL DE RÉFÉRENCE CARTOGRAPHIQUE ET INDEX
DES CARTES DE LA COMMISSION GÉOLOGIQUE DU CANADA









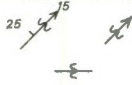





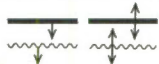

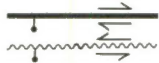
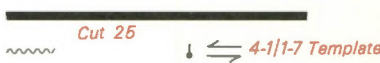






NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND
INDEX TO GEOLOGICAL SURVEY OF CANADA MAPS
SYSTÈME NATIONAL DE RÉFÉRENCE CARTOGRAPHIQUE ET INDEX
DES CARTES DE LA COMMISSION GÉOLOGIQUE DU CANADA

GEOLOGICAL FEATURES	SYMBOL	SPECIFICATIONS
Drift-covered area		
Rock outcrop, area of outcrop, probable outcrop, float, frost heaved rock		Circle 9 Geom I Template and CREX Template 
Geological boundary (defined, approximate, assumed) <i>(shown in legend for final map)</i>		* 
Geological boundary (defined, approximate, assumed) <i>(preliminary map)</i>		
Geological boundary (gradational inferred or metamorphic) <i>(final map)</i>		
Limit of geological mapping		 <i>Spaced out to outline area properly</i>
Limit of area surveyed with aircraft		
Flow contact		
Bedding, tops known (horizontal, inclined, vertical, overturned, dip unknown)		 <i>To be used when tops known and unknown appear on same map</i> 2-1/1-7 Template
Bedding, tops unknown (inclined, vertical, dip unknown)		2-1/1-7 Template
Bedding, general trend (dip unknown, top unknown; dip and top known; dip known, top unknown)		 <i>Peck length according to the author's manuscript.</i>
Bedding, estimated dip (gentle, moderate, steep)		2-1/1-7 Template Type 7 Pt. Helvetica Italic
Primary flow structures in igneous rock (horizontal, inclined, vertical, dip unknown) <i>If a supplementary symbol is needed use</i>		3-1/1-7 Template 4-1/1-7 Template
Schistosity, gneissosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown) <i>Second generation (horizontal, inclined, vertical) * *</i>		2-1/1-7 Template
Schistosity, gneissosity, cleavage, foliation, general trend		 2-1/1-7 Template
Gneissosity, cleavage, foliation (horizontal, inclined, vertical, dip unknown)		2-1/1-7 Template










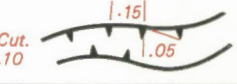










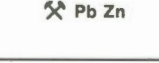
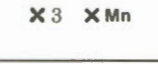
* The minimum distance between two boundaries should be .020"

** Number of ticks indicates generation




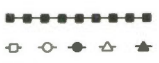







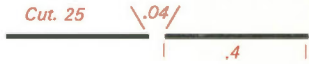
<p>Foliation (horizontal, inclined, vertical, dip unknown)</p>		<p>2-1/1-7 Template</p>
<p>Banding (inclined, vertical, dip unknown)</p>		<p>2-1/1-7 Template</p>
<p>Axial plane of minor fold (horizontal, inclined, vertical, dip unknown)</p>		<p>3-1/1-7 Template</p>
<p>Lineation (horizontal, inclined, inclined but plunge unknown, vertical)</p>		<p>2-1/1-7 Template</p>
<p>Layering (in intrusive rocks)</p>		<p>4-1/1-7 Template</p>
<p>Lineation, axes of minor folds (horizontal, inclined, vertical)</p>		<p>2-1/1-7 Template</p>
<p>Drag-fold (arrow indicates plunge) Drag-fold in gneissosity</p>		<p>2-1/1-7 Template</p>
<p>Minor fold (arrow indicates plunge)</p>		<p>Circle 7, Geom I and 4-1/1-7 Templates</p>
<p>Multiple fold (arrow indicates plunge, inclination of axial plane known, unknown) Multiple fold (plunge unknown)</p>		<p>2-1/1-7 Template</p>
<p>Structural trend (from air photographs)</p>		<p>Follow author's design Cut 5</p>
<p>Lineament (from air photographs)</p>		
<p>Fault (defined, approximate, assumed)</p>		
<p>Fault (inclined, vertical)</p>		
<p>Fault (solid circle indicates downthrow side, arrows indicate relative movement)</p>		
<p>Thrust fault (teeth in direction of dip; defined) (teeth indicate upthrust side)</p>		<p>4-1/1-7 Template or TF Template (Ask supervisor)</p>
<p>Thrust fault (approximate, assumed)</p>		<p>4-1/1-7 Template or TF Template (Ask supervisor)</p>
<p>Fault zone, shear zone; schist zone (width indicated)</p>		<p>Follow author's design Cut. 6 Cut. 4</p> 






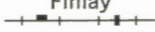







Shearing and dip		2-1/1-7 Template
Vein fault (defined, assumed)		Cut. 10
Mineralized bed or seam (hematite)	hem	hem 6 Pt. Helvetica Roman Cut. 10
Dyke, vein, or stockwork (defined, approximate, assumed)		Cut 20-25
Joint (horizontal, inclined, vertical, dip unknown)		3-1/1-7 Template
Anticline (defined, approximate) Antiform		
Syncline (defined, approximate) Synform		
Anticline and syncline (overturned)		Cut 8 2-1/1-7 Template
Anticline or syncline (arrow indicates plunge)		Cut 8 2-1/1-7 Template
Antiform or synform		Cut 8 3-1/1-7 Template
Glacial striae (direction of ice movement known, unknown) Numbers indicate relative age, 1 being the oldest		2-1/1-7 Template Type 6 pt. Trade Gothic Light
End moraine		Cut. 10
Minor moraines, washboard moraines, "annual" moraines, till ridges transverse to ice flow (irregular, straight)		
Drumlins, drumlinoid ridges, crag and tail, furrows, flutings, gouges, till ridges; parallel with ice flow (direction of ice movement known, unknown) (On large scale map) When necessary to distinguish between drumlins and crag and tail hills use for drumlins and for crag and tails		2-1/1-7 Template
Pingo or palsen		3-1/1-7 Template
Esker (direction of flow known, unknown)		Stock 89, 90. or special E Template (Ask supervisor)

Arrow heads should not be patched on overlay if symbol lines are scribed

<p><i>Esker (continuous, discontinuous)</i></p>		<p>Stock 89, 90. or special E Template (Ask supervisor)</p> 
<p><i>Raised beaches</i></p>		<p>Circle 9 Geom I Template Cut 5</p>
<p><i>Limit of marine or lacustrine submergence (well marked, assumed)</i></p>		<p>2-11-7 Template</p>
<p><i>Dunes</i></p>		<p>4-11-7 Template</p>
<p><i>Area of sand dunes</i></p>		<p>Stock 49</p>
<p><i>Buried valley</i></p>		
<p><i>Abandoned river channel, spillway, ice-marginal channels, rill patterns etc.</i></p>		
<p><i>Landslide scar</i></p>		<p>Follow author's design Cut. 5</p>
<p><i>Escarpment</i></p>		<p>As on author's manuscript Cut. 5</p>
<p><i>Fossil locality</i></p>		<p>Stock 370</p>
<p><i>Locality where age has been determined, in millions of years</i></p>		<p>Stock 370 8pt. Helvetica Roman</p>
<p><i>Location of measured section</i></p>		
<p><i>Gravel pit (active, abandoned)</i></p>		<p>3-11-7 Template</p>
<p><i>Rock dump or tailings</i></p>		
<p><i>Quarry or mine; rock trench and stripped area Quarry or mine (abandoned)</i></p>		<p>3-11-7 Template</p>
<p><i>Mine or mineral prospect (lead, zinc)</i></p>		<p>3-11-7 Template letters 7 or 8pt. Helvetica Bold</p>
<p><i>Mineral prospect; mineral occurrence (manganese)</i></p>		<p>3-11-7 Template 3 8pt. Century Schoolbook Roman Mn 7 or 8pt. Helvetica Bold</p>

For Helicopter Landing see description, page 21

<p>Placer deposit</p>		<p>3-1/1-7 Template</p>
<p>Salt spring</p>	<p>ss </p>	<p>Circle 9 Geom I Template 2-1/1-7 Template Type 7pt. Trade Gothic Light It.</p>
<p>Hot spring</p>	<p>hs </p>	<p>Circle 9 Geom I Template 2-1/1-7 Template Type 7pt. Trade Gothic Light It.</p>
<p>Mineral isograd Other alternatives when more than one</p>		<p>4-1/1-7 Template Circle 10 and Triangle 10 Geom I Template</p>
<p>Shaft, raise, winze Shaft (abandoned)</p>		<p>3-1/1-7 and CREX Template Row B</p>
<p>Trench Open cut; axial</p>		<p>3-1/1-7 Template</p>
<p>Adit or tunnel Adit or tunnel (caved)</p>		<p>3-1/1-7 Template</p>
<p>Borehole</p>	<p>● BH ● BH2</p>	<p>Circle 2 GEOM 2 Template Type 7pt. Trade Gothic Light</p>
<p>Diamond-drill hole (Surface projection of geology inferred)</p>	<p>● DDH ○</p>	<p>Cut 5  .10</p> <p>Circle 2 GEOM 2 Template Type 7pt. Trade Gothic Light</p>
<p>Sinkhole</p>	<p>○ SH</p>	<p>Circle 2 GEOM 2 Template Type 7pt. Trade Gothic Light</p>
<p>Gossan</p>		 <p>Stock 102 or larger Craftint 261 Geological boundary as on author's manuscript</p>
<p>Trace of coal seam</p>		<p>Cut. 25  .04 / .4</p>

ROADS AND RELATED FEATURES	EXAMPLE	SPECIFICATIONS
Road, all weather		<p>Route 2</p> <p>6pt. Cen. Sch. Roman C/O 2 Circle 6 Geom / Template</p> <p>Cut. 5-22-5 2 7pt. Trade Gothic Light</p>
Other roads		<p>.08 .02</p> <p>Cut. 4-18-4</p>
Cart track or Road, under construction		<p>.12 .02</p> <p>Cut. 8</p>
Trail or portage		<p>.06 .02</p> <p>Cut. 7</p>
RAILROADS AND RELATED FEATURES	EXAMPLE	SPECIFICATIONS
Railway		<p>.2 .05</p> <p>Cut. 8</p>
Station or stop	<p>Finlay</p> 	<p>Type: 8pt. Helvetica Roman</p> <p>.03 x .06 .02 x .06</p>
Aerial cableway, conveyor belts etc.		<p>6pt. Trade Gothic 18 Condensed C.</p> <p>Cut. 5 Labeled .08 .02</p>
AIRPORTS ETC.	EXAMPLE	SPECIFICATIONS
Aerodrome, airport (large scale map)		<p>Cut. 6</p> <p>.04 .02</p> <p>Plotted to scale</p>
Airstrip (large scale map)		<p>.02</p> <p>Cut 6</p> <p>.04</p> <p>Plotted to scale</p>
Aerodrome, airport (small scale map)		<p>Stock 373</p>
Airstrip (small scale map)		<p>Stock 373</p>
Seaplane base, anchorage		<p>Stock 373</p>
Helicopter landing		<p>Stock 370</p>

FEATURES RELATED TO COMMUNICATIONS	EXAMPLE	SPECIFICATIONS
Wireless station		Stock 378
Telegraph or telephone line		
POPULATED PLACES AND RELATED FEATURES	EXAMPLE	SPECIFICATIONS
Large built up area (large scale map)		Cut. 5 Craftint 256
Small built up area (large scale map)		Cut. 5 Zip-a-tone 66
Built up area (small scale map)	<u>Sudbury</u> 	7 or 8pt. Century Schoolbook Roman ○ Stock 372
Village or settlement	<u>Minto</u> 	Name only is indicated 7 or 8pt. Century Schoolbook Roman
Post Office (village or settlement)	<u>Navan P</u> 	Navan 8pt. Century Schoolbook Roman P Stock 370 or 7pt. Trade Gothic Light.
Post Office name (different from place name)	Port Williams (Greenwich PO)	8pt. Century Schoolbook Roman 7pt. Trade Gothic Light.
Trading Post RCMP Post Building *	Tr 	Stock 370 or 7pt. Trade Gothic Light. Stock 371
LANDMARK FEATURES	EXAMPLE	SPECIFICATIONS
Mine		3-1 1-7 Template
Open cut		3-1 1-7 Template
Lighthouse		Stock 372
Power transmission line		
Pipeline		Labeled 7pt. Trade Gothic Light Cut. 6











* Building to be shown on author's request generally on small scale maps representing inhabited areas (shape of building determined by author)

CONTROL POINTS	EXAMPLE	SPECIFICATIONS
<i>Horizontal control point</i>	▲	<i>Stock 373-372</i>
<i>Boundary monument</i>	▣	<i>Stock 372</i>
<i>Observation monument</i>	○	<i>Stock 373-372</i>
BOUNDARIES	EXAMPLE	SPECIFICATIONS
<i>International</i>	— · · · — · · · —	<p><i>Cut. 15 Dot 20</i></p>
<i>Provincial</i>	— · · — · · —	<p><i>Cut. 13 Dot 20</i></p>
<i>County or district</i>	— · — · — · —	<p><i>Cut. 11 Dot 18</i></p>
<i>Township or parish</i>	— — — — —	<p><i>Cut. 10 Dot 20</i></p>
<i>Park</i>		<p><i>Cut. 10 Zip-a-tone optional</i></p>
<i>Indian reserve</i>	— — — — —	<p><i>Cut. 5</i></p>
<i>Section or survey lines</i>	— — — — —	<i>Cut. 5</i>
<i>Meridian or base line</i>	— — — — —	<i>Labeled 8 Pt. Lightline Gothic</i> <i>Cut. 5</i>
<i>Forest and game reserves *</i>	— — — — —	<p><i>Cut. 5</i></p>

* Are not shown, unless required by author

SHORELINE AND DRAINAGE	EXAMPLE	SPECIFICATIONS
Shoreline		Cut. 6
Large stream		Cut. 6 *
Stream (perennial)		* *
Intermittent stream		
Approximate stream or lake		
Rapids, falls Portage		Type Stock 437
Irrigation canal or ditch		Cut. 5
Canal		
Foreshore, tidal flats		
Reef, rock or small island	+	Stock 378 Smallest of the two sizes
Marsh, bog or open muskeg		
Wharf or pier		
Rocky ledge		Cut. 6
Dam		Dam 7pt. Trade Gothic Light
Salt marsh (Schorre)		

* Minimum width of double line rivers .016
 ** Start rivers with cut. 4 and change to next half size to cut. 7,
 then use next full size to a maximum of cut. 12

RELIEF FEATURES	EXAMPLE	SPECIFICATIONS
Contours		
Depression contours		
Cliff, bluff or escarpment		
Sand or gravel		<p>*</p> 
PERMANENT SNOW AND ICE FEATURES	EXAMPLE	SPECIFICATIONS
Glacier, snowfield or ice cap		

* a) Sand and gravel to be shown in brown.
 b) If areas on topographical sheet are different from those on geological manuscript, follow manuscript.

GEOLOGICAL INFORMATION	EXAMPLE	SPECIFICATIONS
<i>Legend type for final and provisional maps</i>	GROUP Quartz	See pages 36, 37, 38, 40
<i>Legend type for preliminary map</i>	GROUP Quartz	See pages 32, 33, 34, 35
<i>Descriptive notes for final map</i> Words "descriptive notes" for final map	Sandstone NOTES	8 Pt. Helvetica Roman 10 Pt. Helvetica Roman 1 unit
<i>Index map</i> Words "Index map" "Lieu de la carte"	LIEU DE LA CARTE INDEX MAP	Stock 434
LABELED GEOLOGICAL INFORMATION	EXAMPLE	SPECIFICATIONS
<i>Geological reference letters</i>	5a Hs	6 Pt. Helvetica Roman 9 Pt. Helvetica Roman (in legend block) 8 Pt. Helvetica Roman (in legend text)
<i>Bedding and strike number</i>	45	Stock 56
<i>Isograd descriptive name</i>	BIOTITE	7pt. Helvetica Italic
<i>Iso-line and contour number</i>	200	8pt. Helvetica Roman
<i>Mining property name</i>	Sullivan	7 or 8pt. Helvetica Roman
<i>Reference number for mining property</i>	20	8pt. Century Schoolbook Roman
<i>Mineral identification symbol</i>	Cu py	7 or 8 pt. Helvetica Bold
<i>Geological note inside map-area</i>	Unmapped	7 or 9pt. Helvetica Italic
	Unmapped	7 or 9pt. Helvetica Bold Italic. Use only if conflicting on map with other names such as glaciers etc.....
<i>Anticline, syncline and fault names</i>	LEWIS FAULT	7 or 9pt. Helvetica Italic

*For ordering Ref. Letters from Lino-Film see Page 46

PLACES	EXAMPLE	SPECIFICATIONS
<i>Principal city, capital or main city of the map</i>	OTTAWA	10 or 12pt. Century Schoolbook Roman
<i>Other cities</i>	Hull	8 or 10pt. Century Schoolbook Roman C/C
<i>Village</i>	Stonecliffe	6 or 8 pt. Century Schoolbook Roman C/C
<i>Railway station and stop</i>	Brouse Sta	7pt. Helvetica Roman C/C
LAND DIVISIONS, ALONG BOUNDARIES	EXAMPLE	SPECIFICATIONS
<i>Country, province, territory, county, district</i>	CANADA	12pt. Coplate 6, 5 and 6pt. Coplate 4
<i>Foreign name</i>	UNITED STATES, MAINE	12pt. Coplate 6
<i>Township, parish, municipality</i>	HAMSTEAD TP.	9pt. Trade Gothic 18 Condensed
<i>Meridian, base line</i>	Principal Meridian	7pt. Trade Gothic Light
LAND DIVISIONS, OPEN AREA	EXAMPLE	SPECIFICATIONS
<i>Foreign country name</i>	GREENLAND (DENMARK)	Trade Gothic Light
RESERVATIONS	EXAMPLE	SPECIFICATIONS
<i>Military reserves, national or provincial parks (Forest and game reserves are not shown, unless required by author)</i>	PARK	18pt. Coplate 9
	MILITARY RESERVE	12pt. Coplate 6
<i>Indian reserve</i>	I.R. No. 16	Trade Gothic Light up to 8pt.

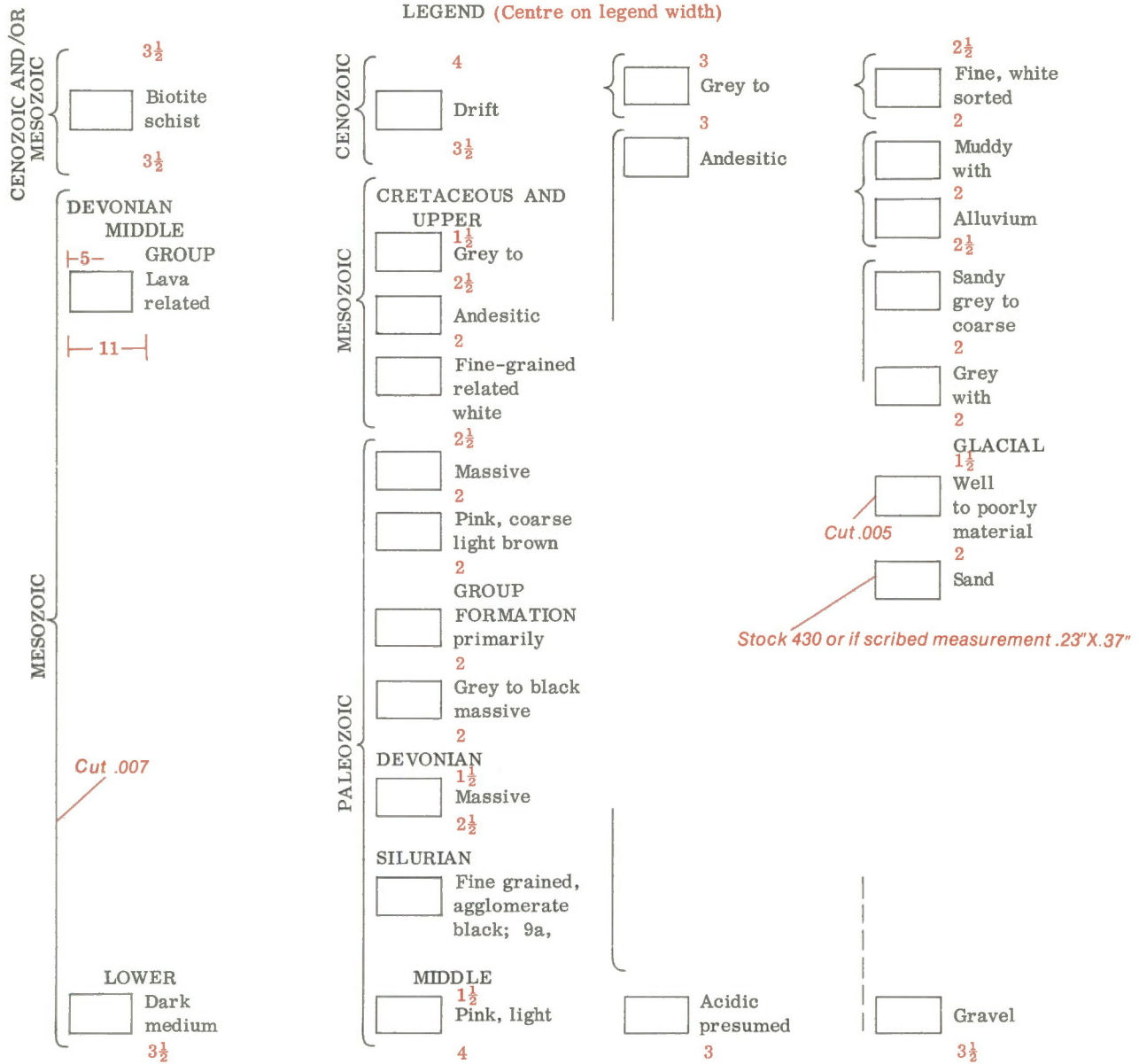
LITTORAL DESCRIPTIVE NAMES	EXAMPLE	SPECIFICATIONS
<i>Large : island, peninsula, isthmus</i>	DEVON ISLAND	<i>10 to 18pt. Helvetica Roman C.</i>
<i>Small : island, peninsula, isthmus</i>	Hazel I.	<i>Up to 10pt. Trade Gothic Light C/C</i>
<i>Point, cape</i>	Cap Blanc	<i>7pt. Trade Gothic Light C/C</i>
OROGRAPHY	EXAMPLE	SPECIFICATIONS
<i>Mountain range and large mountain</i>	ROCKY MOUNTAINS	<i>12 Pt. Coplate 5,6,7</i>
<i>Mountain, hill, pass</i>	SHASS MOUNTAIN	<i>6 Pt. Coplate Cond. 34 12 Pt. Coplate Cond. 35</i>
<i>Mountain, hill and peak (in congested area)</i>	SHASS MTN. Shass Mtn.	<i>6 Pt. Coplate Cond. 33 6 Pt. News Gothic Cond. C/C</i>
HYDROGRAPHY	EXAMPLE	SPECIFICATIONS
<i>Body of open water</i>	HUDSON BAY	<i>8 to 16 Pt. Cent. Schoolbook Italic</i>
<i>Small lake, pond, bay etc . . .</i>	<i>Quill Lakes</i>	<i>6 or 8 Pt. Cent. Schoolbook Italic</i>
<i>Large river</i>	COLUMBIA RIVER	<i>8 to 12 Pt. Cent. Schoolbook Italic</i>
<i>Medium river</i>	<i>Rivière Saguenay</i>	<i>8 or 10 Pt Cent. Schoolbook Italic</i>
<i>Small stream, named falls and rapids</i>	<i>Clear Bk Grand Falls</i>	<i>6 Pt. Cent. Schoolbook Italic</i>

ROADS AND RAILROADS	EXAMPLE	SPECIFICATIONS
<i>Label roads and railways</i>	ALASKA HIGHWAY	<i>6pt. or 7pt. Trade Gothic 18 Condensed C.</i>
<i>Route number inside circle</i>	②	<i>6pt. Trade Gothic Light Circle: Stock 393-393A</i>
CONTROL DATA	EXAMPLE	SPECIFICATIONS
<i>Contour figure</i>	1200	<i>Stock 123</i>
<i>Spot elevation and lake elevation</i>	+ 650 650	<i>6pt. Trade Gothic Light + Stock 378 (smallest of the two sizes)</i>
<i>Relief data note</i>	Rising to about 6000 feet	<i>7pt. Helvetica Roman</i>
<i>Concession, range number</i>	IV	<i>7pt. Trade Gothic Light.</i>
<i>Section number</i>	22	<i>6pt. Trade Gothic Light</i>
<i>Surveyed line</i>	7th Base Line	<i>6pt. Trade Gothic Light</i>
LABELED FEATURES	EXAMPLE	SPECIFICATIONS
<i>Dam, ferry, crossing, ford, bridge, ditch etc...</i>	Old Dam	<i>6pt. Trade Gothic Light</i>
SNOW AND ICE FEATURES	EXAMPLE	SPECIFICATIONS
<i>Glacier name</i>	Glacier	<i>7 or 8 pt Helvetica Italic</i>
<i>Small ice cap</i>	Seward Ice Cap	<i>8pt. Helvetica Italic</i>
<i>Large ice cap</i>	GREAT ICE CAP	<i>Up to 12pt. Helvetica Italic</i>

Layout of legend

Typewritten legend (to be reduced 4 to 3)

Note: this guide is not true to scale



Vertical and horizontal measurements calculated from typewriter spacing

(Centre on legend width)

See pages 14 to 19 for proper sequence

Geological	1 1/2
Bedding, tops dip	1 1/2
Fault	3

MINERALS

Arsenopyrite asp	Silver Ag
Gold Au	

3

See page 41 for typewriter specifications

Layout of legend (continued)

Typewritten legend (to be reduced 4 to 3)

Note: this guide is not true to scale

Geology by 1968 or 1967, 1968 or 1967, 1969
or if continuous 1967-1970

3

To accompany Paperby.....

3

(Any supplementary information concerning geology should be inserted here)

One of these notes should appear in legend

This preliminary edition may be subject to revision and correction

This preliminary edition was prepared without final drafting and may be subject to revision and correction

3

Geological cartography by the Geological Survey of Canada

3

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

3

(Topographical map name should appear in note if different from Geological map)

One of these credit notes should appear in legend

Base-map used without redrafting

Base-map at the same scale or at the scale of 1/..... published by..... in 1968. If revisions add: Roads or streams or marshes etc. were revised by the Geological Survey of Canada for this edition

Base-map assembled by the Geological Survey of Canada from maps published at the same scale or at 1/..... scale by in 1956, 1961, 1962, 1964, 1968

Base-map from parts of maps published at the same scale or at 1/..... scale by in 1963, 1965

Redrawn base-map

Base-map cartography by the Geological Survey of Canada from maps published at 1/..... scale by in 1963, 1967

Base-map cartography by the Geological Survey of Canada from part(s) of 1/..... scale map(s) (N. T. S. number(s)) published by in 1963

"Published" should be used where base-map is drawn by the Geological Survey from published maps; if from unpublished maps or from compilation, instead of "published" use "compiled"

Credit notes may apply to: The Surveys and Mapping Branch, The Army Survey Establishment, R. C. E., or any provincial organization or mining company

3

Copies of the topographical edition of this map may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa (If base-map is at same scale)

3

Geographical names subject to revision (If author requires new names)

3

Approximate magnetic declination 1969, 29° 37' West, decreasing or increasing 2.9' annually

Mean magnetic declination 1969, 24° 38' East, decreasing or increasing 5.3' annually. Readings vary from 21° 54' in the SE corner to 27° 18' in the NW corner of the map-area

Magnetic declination 1969 varies from 05° 34' easterly at centre of west edge to 03° 20' easterly at centre of east edge. Mean annual change 0.8' easterly or + 0.8' or 0.8' westerly or -0.8'

3

The Quebec-Newfoundland boundary has not been surveyed and monumented on the ground at date of publication

3

Elevations in feet above mean sea-level

(Any supplementary information concerning topography should be inserted here)

See page 41 for typewriter specifications

One of these notes should appear in legend
1/125,000 1/250,000, 1/50,000
1/500,000 1/1,000,000 1/25,000

Layout of legend

Linofilm

Legend to be set in 8 point Century Schoolbook Roman
All measurements are in points (or in picas where indicated)

Note: this guide is not true to scale

LEGEND (Centered)

All eras are 45 points (Exception: PROTEROZOIC = 50 pts)

CENOZOIC AND/OR MESOZOIC

Biotite schist 8/35

DEVONIAN MIDDLE GROUP 8/35

Lava related

3 picas

MESOZOIC

Cut .005

1.5 pica
LOWER MIDDLE
 Dark medium

8/35

CENOZOIC

Drift 8/40

MESOZOIC

CRETACEOUS AND UPPER 8/35 8/10

Grey to 8/15

Andesitic 8/25

Fine-grained related white 8/20 8/10

Massive 8/25

Pink, coarse light brown 8/20

3 picas
GROUP FORMATION 8/20 8/10
 primarily 8/10

Grey to black massive 8/20

PALEOZOIC

DEVONIAN 8/20

Massive 8/15

SILURIAN 8/25

Fine grained, agglomerate black; 9a,

1.5 pica
MIDDLE 8/20

Pink, light

8/40

Grey to 8/32

Andesitic 8/30

Fine, white sorted 8/27 8/10

Muddy with 8/20 8/10

Alluvium 8/20

Sandy grey to coarse 8/25 8/10 8/10

Grey with 8/20 8/10

GLACIAL 8/20

Well to poorly material 8/15 8/10 8/10

Cut .005

Sand 8/20

Stock 430 or if scribed measurement .23"X .37"

Acidic presumed

8/32

Gravel

8/35

See pages 14 to 19 for proper sequence Standard spacing 3 units

- Geological
- Bedding, tops 8/15
- dip 8/10
- Fault 8/15

MINERALS 8/30

Arsenopyrite asp 8/15 Silver Ag

Gold Au 8/15

8 picas

2 picas

See page 41 for points and picas specifications

Layout of legend (continued)

Linofilm

Note: this guide is not true to scale

Geology by 1968 or 1967, 1968 or 1967, 1969
or if continuous 1967-1970
8/30

To accompany Paper by
8/30

(Any supplementary information concerning geology should be inserted here)

One of these notes
should appear in legend

This preliminary edition may be subject to revision and correction

This preliminary edition was prepared without final drafting and may be subject to revision and correction 8/10

8/30

Geological cartography by the Geological Survey of Canada

8/30

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada 8/10

8/30

(Topographical map name should appear in note if different from Geological map)

One of these credit notes should appear in legend

Base-map used
without redrafting

Base-map at the same scale or at the scale of 1/..... published by in 1968. If revisions add: Roads or streams or marshes etc. were revised by the Geological Survey of Canada for this edition 8/10

Base-map assembled by the Geological Survey of Canada from maps published at the same scale or at 1/..... scale by in 1956, 1961, 1962, 1964, 1963

Base-map from parts of maps published at the same scale or at 1/..... scale by in 1963, 1965

Redrawn
base-map

Base-map cartography by the Geological Survey of Canada from maps published at 1/..... scale by in 1963, 1967

Base-map cartography by the Geological Survey of Canada from part(s) of 1/..... scale map(s) (N. T. S. number(s)) published by in 1963

"Published" should be used where base-map is drawn by the Geological Survey from published maps; if from unpublished maps or from compilation, instead of "published" use "compiled"

Credit notes may apply to: The Surveys and Mapping Branch, The Army Survey Establishment, R. C. E., or any provincial organization or mining company

8/30

Copies of the topographical edition of this map may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa (If base-map is at same scale)

8/30

Geographical names subject to revision
(If author requires new names)

8/30

One of these notes should appear in legend

1/25,000 1/50,000 1/100,000 1/125,000
1/250,000 1/500,000 1/1,000,000

Approximate magnetic declination 1969, 29° 37' West, decreasing or increasing 2.9' annually

Mean magnetic declination 1969, 24° 38' East, decreasing or increasing 5.3' annually. Readings vary from 21° 54' in the SE corner to 27° 18' in the NW corner of the map-area

Magnetic declination 1969 varies from 05° 34' easterly at centre of west edge to 03° 20' easterly at centre of east edge. Mean annual change 0.8' easterly or + 0.8' or 0.8' westerly or -0.8'

8/30

The Quebec-Newfoundland boundary has not been surveyed and monumented on the ground at date of publication 8/10

8/30

Elevations in feet above mean sea-level

(Any supplementary information concerning topography should be inserted here)

DESCRIPTIVE NOTES AND LEGEND

Layout of legend and descriptive notes as prepared for Linofilm

Note: this guide is not true to scale

Descriptive Notes to be set in 8/9 Trade Gothic Light, upper and lower case except where circled in red

10 Hel. Roman, DESCRIPTIVE NOTES

Caps, 1 unit 8/22

Less 1 pica The map-area lies across the boundary between the Central Paleozoic Mobile Belt and the Avalon Platform (1) the boundary passing beneath Hermitage Bay, where it is interpreted as a fault (2) and presumably extending southwestward south of Penquin Islands. Rocks (7, 11) north of the boundary are typical of the regional metamorphic terrane and granitic intrusions that characterize the eastern margin of the Central Paleozoic Mobile Belt and that continue 120 miles along trend to the northeast coast of Newfoundland (3). To the south lie intrusive rocks (10, 11) and the relatively unmetamorphosed volcanic rocks (1) on Plate Islands.

Rocks of the Baie d'Espoir Group (3), (originally Baie d'Espoir Series (7)) are for the most part regionally metamorphosed throughout the map-area but they can be traced northeastward into less metamorphosed equiva-

lents, which extend all the way to the northeast coast of Newfoundland (9). The rocks are unfossiliferous in the map-area but geologists of the Newfoundland and Labrador Corporation discovered a poorly preserved probable Ordovician gastropod (? *Eotomaria* sp.) 9 miles east of the map-area at Barasway de Cerf in Bay d'Espoir (W. B. Dunlop, pers. comm., 1962), and more recently crinoidal debris and (*Streptelasma*) suggesting an Ordovician or later age were found near St. Albans (F. D. Anderson, pers. comm., 1967). 8 Hel. *Italic*, upper & lower case

Justify right margin

- 1 Williams, Harold: Silurian rocks of Newfoundland; Geol. Assoc. Can., Special Paper No. 4, pp. 93-138 (1967). 7/8 Trade Gothic Light, 7/24
- 2 Williams, Harold: The Appalachians in northeastern Newfoundland - A two-sided symmetrical system; Am. J. Sci., vol. 262, pp. 1137-1158 (1954). 7/24
- 3 Anderson, F.D.: Belleoram map-area, Newfoundland; Geol. Surv. Can., Map 8-1965 (1965). 7/24

Numbers circled in red - 6 Trade Gothic Light

See page 39 for preparation

LEGEND

Note: this guide is not true to scale

Line-space measurements can be adjusted to suit particular legend in the following cases:
8/13 can vary from 8/11 to 8/15 in list of symbols
line-space 30 can be reduced to 20 in credit notes

Legend to be set in 8/10 Helvetica *Italic* unless otherwise indicated

All measurements are in points (or in picas where indicated)

10 pt Helvetica Roman, 4 units, centred

LEGEND

8/40	8/35	8/30
Unconso	Sandy beach	Rocky basalt flows
8/53	8/48	8/43
Mafic	Mafic	Mafic

LEGEND

Unconso	Sandy beach	Rocky basalt flows
8/48	8/43	8/38
Mafic schist	Mafic schist	Mafic schist

LEGEND

Unconso	Sandy beach	Rocky basalt flows
8/43	8/38	8/33
Mafic schist gneiss	Mafic schist gneiss	Mafic schist gneiss

9 Pt. Helvetica Roman
Special letters - New GSC Grip Plate

LEGEND

8/44	Unconso	Uncon	Uncon
8/57	8/52	8/47	
Quartz	Maroon green	Grey thin-be black	

LEGEND

8/39	Sandy beach	Sandy beach	Sandy beach
8/52	8/47	8/42	
Quartz	Maroon green	Grey thin-be black	

LEGEND

8/34	Rocky basalt flows	Rocky basalt flows	Rocky basalt flows
8/47	8/42	8/37	
Quartz	Maroon green	Grey thin-be black	

See page 40 for preparation

All eras are 50 points (exception: PROTEROZOIC = 75 points)

10 pt Helvetica Roman

MESOZOIC CENOZOIC

Cut .007

Cut .005

Block: .4" x .75" or Stock 431 and 431A

11

11

7

28 pt

5 picas

Layout of legend as prepared for Lino film (cont.)

LEGEND

8/18

Note: legend blocks

	LEGEND			LEGEND			LEGEND			
	9/31 Helvetica Roman	8/30	7/29	9/30						
CENOZOIC	QUATERNARY	PER	GROUP	TOCENE	TOCENE			TOCENE		
		8/20	8/20	8/20	8/15	8/10	Rocky	The line-space remains the same with 3 lines or over		
		Unconso	Uncon	Uncon	Sandy beach					
MESOZOIC	CRETACEOUS	PER	GROUP	TACEOUS	TACEOUS			TACEOUS		
		8/20			8/15	8/10	Biotite	Biotite	Biotite	
			Biotite	Biotite	Biotite	Biotite quartz	Biotite quartz	Biotite quartz	Biotite quartz	Biotite quartz
	8/42	8/37	8/32	8/37	8/32	8/27	8/32	8/27	8/22	
		Biotite	Biotite quartz	monzo	Biotite	Biotite quartz	monzo	Biotite	Biotite quartz	
	8/49	8/44	8/39	8/44	8/39	8/34	8/39	8/34	8/29	
		Biotite	Biotite	Biotite	Biotite quartz	Biotite quartz	Biotite quartz	Biotite quartz	Biotite quartz	
MESOZOIC	JURASSIC	PER	GROUP	SIC	PER	GROUP	SIC	PER	GROUP	
		8/20	8/32	7/31	9/28	8/27	7/26	9/23	8/22	7/21
			Augite	Augite andesi breccia	Augite	Augite andesi	Augite andesi breccia	Augite	Augite andesi	Augite andesi breccia
	8/63	8/58	8/53	8/58	8/53	8/48	8/53	8/48	8/43	
		Centre line on line-space			Bedrock minor	Bedrock minor	Bedrock minor	Bedrock minor rocky	Bedrock minor rocky	
	9/40 Helvetica Roman			9/35			9/30			
	ROCKS			ROCKS			ROCKS			
	8/32			8/27			8/22			
		Bedrock			Bedrock minor		Bedrock minor rocky			
	9/33 Helvetica Roman									
	CRETACEOUS UPPER									
	8/10 Helvetica Roman									
	GROUP	7/9 Helvetica Roman								
	8/20									
		Biotite quartz								
CENOZOIC	CRETACEOUS	PER	GROUP	TACEOUS	PER	GROUP	TACEOUS	PER	GROUP	
		8/20	8/15	8/10	8/15	8/10	8/10			
			Biotite	Biotite quartz	monzo	Biotite	Biotite quartz	monzo	Biotite	Biotite quartz
	8/32	8/27	8/22	7/31	7/26	7/21				
		Biotite	Biotite quartz	monzo	Biotite	Biotite quartz	monzo	Biotite	Biotite quartz	
	2.5 picas	UPPER								
	8/20	FORM: and; 1a,	FORMATION: and; 1a, plus; 2a,	GROUP	GROUP	GROUP				
		Biotite		Biotite	Biotite quartz	monzo				
	8/50	8/45	8/40	8 pt Helvetica Roman						

See page 14 to 19 for proper sequence

Area of rock outcrop . . . 8/13

Geological boundary (defined, approximate, assumed) . . . 8/10

1 pica

Less 8 picas from chosen width for symbols

Layout of legend as prepared for Linofilm (cont.)

Centre 9/30 Helvetica Roman

MINERALS

Beryl 8/15 by 2 Silver Ag 8 pt Helvetica Bold
 Gold 8/13 Au 8/13 Tourmaline
 ← 8/30 8 picas →

Geology by 1968 or 1967, 1968 or 1967, 1969
 or if continuous 1967-1970 8/10

8/30

To accompany Memoir or Bulletin by

8/30

(Any supplementary information concerning geology should be inserted here)

Geological cartography by the Geological Survey of Canada

8/30

Any revisions or additional geological information known to the user
 8/10 would be welcomed by the Geological Survey of Canada

8/30

(Topographical map name should appear in note if different from Geological map)

See page 21 to 25 for proper sequence

Roads (applies when the base-map is
 8/13 credited to the Geological
 Cart track Survey of Canada)
 Marsh 8/30

One of these notes should appear in legend

Base-map used without redrafting {
 Redrawn base-map {

8/30
 Base-map at the same scale published by in
 If revised add: Roads or streams or marshes, etc. were revised
 by the Geological Survey of Canada for this edition

8/30
 Base-map cartography by the Geological Survey of Canada from
 maps published at 1/ scale by in

8/30
 Base-map cartography by the Geological Survey of Canada
 from part(s) of 1/ scale map(s)
 (N.T.S. number(s)) published by in

8/30
 "Published" should be used where base-map is drawn by the
 Geological Survey from published maps; if from unpublished maps
 or from compilation, instead of "published" use "compiled"

Credit notes may apply to: the Surveys and Mapping Branch,
 the Army Survey Establishment, R.C.E., or any
 provincial organization or mining company

Copies of the topographical edition of this map may be obtained from the
 Canada Map Office, Department of Energy, Mines and Resources, Ottawa
 (if base-map is at the same scale)

One of these notes should appear in legend

1/50,000, 1/25,000 {
 1/250,000, 1/125,000 {
 1/1,000,000, 1/500,000 {

8/30
 Approximate magnetic declination 1970, 29°37' West,
 decreasing or increasing 2.9' annually

8/30
 Mean magnetic declination 1970, 24°38' East, decreasing or increasing
 5.3' annually. Readings vary from 21°54' in the SE corner to
 27°18' in the NW corner of the map-area

8/30
 Magnetic declination 1970 varies from 05°34' easterly at centre of west
 edge to 08°20' easterly at centre of east edge. Mean annual change
 08' easterly or +0.8 0.8' westerly -0.8'

8/30
 The Quebec-Newfoundland boundary has not been surveyed and monumented
 on the ground at date of publication

8/30
 Elevations in feet above mean sea-level
 (applies when the base-map is credited
 to the Surveys and Mapping Branch or
 the Army Survey Establishment, R.C.E.)

(Any supplementary information concerning topography should be inserted here)

Sample of Descriptive Notes as prepared for Linofilm

+ DESCRIPTIVE NOTES 10 Pt Helvetica Roman (caps)

← Justify to 18 picas →

Less 1 pica | 9/4 Trade Gothic Light (c.+c) | 9/22

→ The map-area lies across the boundary between the Central Paleozoic Mobile Belt and the Avalon Platform (2), the boundary passing beneath Hermitage Bay, where it is interpreted as a fault (4), and presumably extending southwestward south of Penguin Islands. Rocks (7, 11) north of the boundary are typical of the regional metamorphic terrane and granitic intrusions that characterize the eastern margin of the Central Paleozoic Mobile Belt and that continue 120 miles along trend to the northeast coast of Newfoundland (5). To the south lie intrusive rocks (10, 11) and the relatively unmetamorphosed volcanic rocks (1) on Plate Islands.

Circled Nos. 6 Trade Gothic Light

Rocks of the Baie d'Espoir Group (3), (originally Baie d'Espoir Series (4), are for the the most part regionally metamorphosed throughout the map-area but they can be traced northeastward into less metamorphosed equivalents, which extend all the way to the northeast coast of Newfoundland (5). The rocks are unfossiliferous in the map-area but geologists of the Newfoundland and Labrador Corporation discovered a poorly preserved probable Ordovician gastropod (?Eotomaria sp.) 9 miles east of the map-area at Barasway de Cerf in Bay d'Espoir (W.B. Dunlop, pers. comm., 1962), and more recently crinoidal debris and Streptelasma, suggesting an Ordovician or later age were found near St. Albans (F.D. Anderson, pers. comm., 1967).

Underlined words 9 Helvetica Italic (c.+c)

Less 1 pica | 8/16 Trade Gothic Light (c.+c) | 8/16

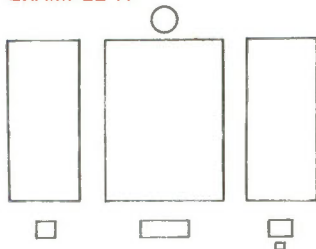
→ Williams, Harold: Silurian rocks of Newfoundland; Geol. Assoc. Can., Paper No. 4, pp. 93-138 (1967).

→ Williams, Harold: The Appalachians in northeastern Newfoundland A two-sided symmetrical system; Am. J. Sci., vol. 262, pp. 1137-1158

→ Anderson, F.D : Belleoram map-area, Newfoundland; Geol. Surv. Can., Map 8-1965 (1965).

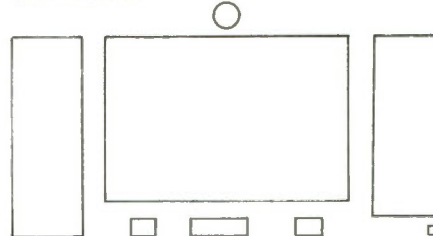
NOTE: Descriptive Notes are on east side of map, minimum distance .5" from outside border. As legibility becomes critical over 6 inches, width should not exceed 5 inches for a single column. If two columns are needed, calculation should be made to obtain two equal columns (see example). In all cases, the lines should be justified

EXAMPLE A



In half sheets, notes do not extend beyond north and south outside border

EXAMPLE B



In full sheets, notes do not exceed north outside border but can extend to the folding title (see page 5)

Calculation of Descriptive Notes

GIVEN DATA

Height of map e.g. 17 inches -
 Number of characters counted in typewritten descriptive notes e.g. 13,000
 Linofilm characters 8/9 Trade Gothic Light

CALCULATION

Length of notes 17"x72" = 1224 points 1,224/9 = 136 lines of characters
 13,000/136 = 95.58 characters-per-line 95.58/3.1 = 30.83 picas 30.83/6 = 5.13 inches
 Maximum width of Descriptive Notes being 5 inches,
 it should be printed in two 3 inch columns
 3x6 = 18 picas 18x3.1 = 55.8 characters-per-line 13,000/55.8 = 232.9 or 233 lines of characters
 233x9 = 2097 points 2,097/72 = 29 inches 29/2 = 14.5 inches
 Length of notes in two columns: 14.5 inches

See page 36 for final product from linofilm

See page 41 for points and picas specifications

Samples of legend as prepared for Linofilm

In 8/10 Helvetica Italic (caps + case) except where otherwise indicated

5 picas = 16 double spaces (typewriter)

LEGEND *10 Helvetica Roman (caps) Centred, 4 units*

9/31 Helvetica Roman

DEVONIAN (?) AND (?) YOUNGER *8/20*

Less 5 picas → Diabase dykes

Less 2.5 picas → MIDDLE DEVONIAN *8/32 Helvetica Roman*

Batholithic intrusions, undivided; *10a*, granite; *10b*, troctolite; *10c*, gabbro *8/10*

9/28 Helvetica Roman

SILURIAN *8/10 Helvetica Roman*

LATE SILURIAN *8/10*

8a lithic greywacke, grit, argillite, sandstone, with grey-green to brown maroon conglomerate (cgl.); *8b*, grey-green, banded, slaty siltstone, in part with bituminous limestone nodules; probably metamorphosed *3b*

8/50 If double spacing required add following note:

Geological boundary (approximate, assumed) Add leaders

Limit of present study area

8/13

1 S₁ Cleavage, foliation (horizontal, inclined, vertical, dip unknown, crenulated, folded)

Less 1 pica →

8/30

Geological cartography by the Geological Survey of Canada

Centred { Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada *8/30* *8/10*

PALEOZOIC *10 Helvetica Roman*

NOTE: Legend is on west side of map, minimum distance .5" from outside border. There is no limitation of width for legend, however a single column legend should be restricted to 40 picas (maximum size for linofilm - 42 picas). For layout of legend see A and B diagrams on page 39. Parts of legend may well be positioned on either side of title under REFERENCE (see page 5) or inside the map

Calculation of Legend

GIVEN DATA

Height of map + bottom margin e.g. 21 inches

CALCULATION

Estimate width of legend as represented on mss. Count characters in longest line e.g. 66

Divide by 3 (see page 41) 66/3 = 22 picas Width 22/6 = 3.6 inches

Estimate length of legend e.g. 1595 pts for blocks + 228 pts for symbols and notes Length $\frac{1595+288}{72 \text{ pts}} = 26$ inches

Width and length of mss. legend converted in linofilm measurements are respectively 3.6 and 26.0 inches

As maximum height of legend is 21" (Given data) we have $\frac{26 \times 3.6}{21} = 4.45$ inches. As an even figure would be

better and to reduce the length of the legend for sufficient scope, increase 4.45 to 5 inches. The length of the legend will be reduced to $\frac{26 \times 3.6}{5} = 18.72$ inches. Linofilm Print - Width of legend = 5 inches or 30 picas - Length of legend = 18.72 inches

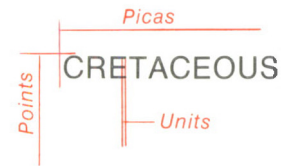
Order linofilm from a typewriter copy being exactly the same, line for line as the print to be received.

Calculate the width of the typewritten legend e.g. 5 inches or 30 picas will convert to 30x3 = 90 characters (linofilm) 90 typewriter characters will extend to 90/12 (see page 41) = 7.5 inches. The typewritten legend should not exceed 7.5 inches in width. The use of hyphens should be avoided at the end of the lines

See pages 36, 37, 38 for legend specifications

LINOFILM AND TYPEWRITER

Specifications for Linofilm



1 inch = 6 picas (approximately)

A pica is the unit of length of a line. The number of picas can be calculated by adding the characters in a line. The following table gives the values for the type faces used in legends and descriptive notes.

CHARACTER-PER-PICA FIGURES

Type face	Capital	Lower case	Combination
7 point Helvetica Roman	2.7	3.4	3.4
8	2.4	3.0	3.0
9	2.1	2.7	2.65
10	1.9	2.4	2.4
8 point Helvetica Italic	2.3	3.0	3.0
9	2.1	2.7	2.65
6 point Trade Gothic Light	3.2	4.1	4.05
8	2.4	3.1	3.05
9	2.1	2.7	2.65



For additional information see *Linofilm Book on Photo-composition*

Maximum printing width in Linofilm is 42 picas or approximately 7 inches

1 inch = 72 points (approximately)

A point is the unit of height for a line or for a distance between two lines. Points are always calculated as ascending

Diagram A shows the extent of the letters in a 24 pt size type and the extent of the distance between 2 lines with 2 pt space. It also shows the principle of ascending for calculation of points. Note no line-space is indicated on the first line

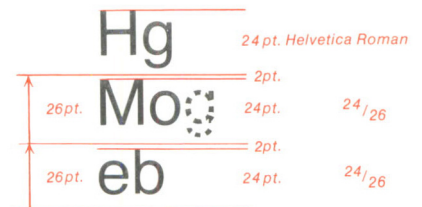
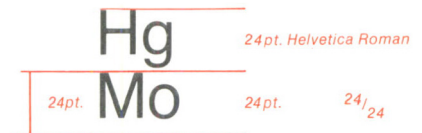


Diagram B shows the extent of the letters in a 24 pt size type with no space between the lines



1 unit = 1/18 of the point size (e.g. In 18pt 1 unit = 18/18 = 1pt — In 6pt 1 unit = 6/18 = .33pt
In 9pt 1 unit = 9/18 = .5pt etc. . .)

Standard spacing between words is 4 units for lower case and 8 units for capitals

Specifications for Typewriter

Electric Typewriter (IBM, Executive, Bold Face #2) Unit type = 1/36 inch

All lower case characters, punctuation marks and symbols are 3 units (1 inch = 12 characters)
except f, l, i, t, j ; = 2 units — W = 4 units — m = 5 units

All upper case characters, punctuation marks and symbols are 4 units (1 inch = 9 characters)
except () : = 2 units — S J - + = 3 units — W M = 5 units

Proportional spacing 2 units Space Bar (can be back spaced to 1 unit)

1 inch = 16 double spaces (2 units Space Bar)

Manual Typewriter 1 inch = 12 uniform lower and/or upper case characters, and/or spaces

DRAFTING AND SCRIBING

Gauge code



Profile of a point



Profile of a chisel

Material	Manufacturer and code #	Thick	Width in inches			Length	Purpose	Remarks
Unsensitized peelcoat	K'E 445407	.0075		36		20 yd roll		For artificial negative
Scribecoat white or rust	K'E 44 3147	.0075		36	42 48	20 yd roll	Scribing	
Stabilene transparent	K'E 44 1017	.0075		36	42 48	20 yd roll	Overlay	Not suitable for pencil. Surface has to be erased before inking
Stabilene matte one side	K'E 44 1057	.0075		36	42 48	20 yd roll		Recommended for water coat Replaces Cronaflex over 42 inches
Cronaflex	Dupont of Canada Ltd UC4 UC7	.004 .007	24	36	42	100 ft roll	Drafting pencil and ink	UC4 Very poor for field mss UC7 Good for stability
Trutrace	Hughes Owens Ltd 159 99 99	.003		36	42	20 yd roll	Checking	Not stable, tears easily
Strathmore board, smooth surface, plain edge	Hughes Owens Ltd	2 ply	30x40 sheet				Drafting	Not stable
Mounting Board	Hughes Owens Ltd 1091		40x60 sheet				Display	Not suitable for drafting

GENERAL PROCEDURE FOR MAPS PRODUCED BY THE GSC		
	PRELIMINARY MAPS	FINAL MAPS
DESCRIPTIVE NOTES	<p>Descriptive Notes for preliminary maps are published in the Paper Series</p> <p>Remarks: If new topo names are required by Author or labelled on manuscript Note "Geographical names ..." should appear in legend</p>	<p>■ Indicates same operation as on preliminary map</p> <ul style="list-style-type: none"> - List names in notes - Check names on topo sheet(s) - Send topo sheet(s) and letter to toponymy (additional and revised names in red ink) - When received from toponymy make changes in Notes accordingly ■ Send for translation (if necessary) - Send to Linofilm (see page 39 for preparation) Obtain film positive
TEXT	<p>PAPER</p> <ul style="list-style-type: none"> - Accept as it is <p>- Return to Editorial as soon as possible</p> <p>Remarks: If new topo names are required by Author or labelled on manuscript, Note "Geographical names ..." should appear in legend</p>	<p>MEMOIR, BULLETIN</p> <ul style="list-style-type: none"> - Text is read by Editor and a list of topo names is supplied to drafting - Check names on topo sheet(s) - Send topo sheet(s) and letter to toponymy (additional and revised names in red ink) - After received from toponymy, list revised names and send it to the Departmental Publishing Office - Return text to Editorial when compilation is completed

GENERAL PROCEDURE FOR MAPS PRODUCED BY THE GSC

BASE - MATERIAL	<ul style="list-style-type: none"> -Find scale, sketch map and indicate lat. and long. on pink sheet in file -Obtain negatives from S & M, grip them and mask unnecessary topo information in margin -Order prepunched film positive of Black, blue, brown(combined) Blue mask Grey, red, etc. ... (combined) -If a mosaic has to be prepared, calculate and plot projection on transparent stabilene film(UTM 1/250,000 and under, Lambert conformal 1/500,000 and over) -Join positives on projection, grip them -Clean negatives and return to S & M -Obtain Magnetic declination -Obtain list of adjoining Geological Maps(same scale, preliminary or final, same series). Prepare NTS Index 	<ul style="list-style-type: none"> ■ Find scale, sketch map and indicate lat. and long. on pink sheet in file ■ Obtain negatives from S & M, grip them and mask unnecessary topo information in margin, retain border if close to GSC standards -Order Thick, prepunched film positives of Black, blue, brown(linework separate from names and numbers) , Blue mask, Grey and red Thin film positives of names and numbers of Black, blue, brown ■ If a mosaic has to be prepared, calculate and plot projection on transparent stabilene film(UTM 1/250,000 and under, Lambert conformal 1/500,000 and over) ■ Join positives on projection, grip them If necessary(due to reduction, difference of weight in linework, up-dating of base, etc. . . .) transfer image on prepunched scribecoat and scribe Black, Blue and Brown or only one or two of them as needed ■ Clean negatives and return to S & M -Prepare list of topo names, if necessary, send it to linofilm ■ Obtain Magnetic declination ■ Obtain list of adjoining Geological Maps(same scale, preliminary or final, same series) Prepare NTS Index 						
MANUSCRIPTS AND GEOLOGICAL MATERIALS	<p>Depending on quality of author's manuscript choose one of the two following procedures:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>Manuscript not suitable for impression on scribecoat (heavy colouring on paper print, different base material, references or symbols to be replaced etc.)</p> </td> <td style="width: 50%; vertical-align: top;"> <p>Manuscript acceptable for impression on scribecoat</p> </td> </tr> </table> <p>-Send transparent mss to obtain autopositive(retain geology only)</p> <ul style="list-style-type: none"> -Check all components: Map, Cross-section, Legend, Descriptive Notes, Overlay -If necessary a layout of map including cross-section, legend, title, notes, descriptive notes should be made on pink sheet at this stage(watch for map size and length of legend, notes, etc.) -Check length of section compared to mss If cross-section is not questioned by Editor, it should be accepted as it is and called "Diagrammatic" -Prepare cronaflex according to layout, grip it -Compile map, cross-section, legend. Ink-in linework, patch on numbers and letters -Obtain information from author, make corrections -Send legend for typing(see pages 32, 33) -Send legend for translation(if necessary) -First check a colour copy on cronaflex should be considered as a good means of checking, a guide for scribing, -Make corrections <table border="0" style="width: 100%;"> <tr> <td style="width: 50%;"></td> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> -Prepare autopositive according to layout, grip it -Compile map, cross-section, legend. Fix line-work, make alterations -Obtain a diazo image on scribecoat using Geology = 100% Topo base = 80% Water mask = 40% </td> </tr> </table>	<p>Manuscript not suitable for impression on scribecoat (heavy colouring on paper print, different base material, references or symbols to be replaced etc.)</p>	<p>Manuscript acceptable for impression on scribecoat</p>		<ul style="list-style-type: none"> -Prepare autopositive according to layout, grip it -Compile map, cross-section, legend. Fix line-work, make alterations -Obtain a diazo image on scribecoat using Geology = 100% Topo base = 80% Water mask = 40% 	<p>Same procedure as on preliminary maps, however draftsmen should spend more time on final maps to keep our high standards</p> <p>Depending on quality of author's manuscript choose one of the two following procedures:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>Manuscript not suitable for impression on scribecoat (heavy colouring on paper print, different base material, references or symbols to be replaced etc.)</p> </td> <td style="width: 50%; vertical-align: top;"> <p>Manuscript acceptable for impression on scribecoat</p> </td> </tr> </table> <p>-Send transparent mss to obtain autopositive(retain geology only)</p> <ul style="list-style-type: none"> ■ Check all components: Map, Cross-section, Legend, Descriptive Notes, Overlay ■ If necessary a layout of map including cross-section Legend, title, notes, descriptive notes should be made on pink sheet at this stage(watch for map size and length of legend, notes etc.) ■ Check length of section compared to mss If cross-section is not questioned by Editor, it should be accepted as it is and called "Diagrammatic" -Prepare cronaflex according to layout, grip it -Compile map, cross-section, legend. Ink-in linework, letters and numbers ■ Obtain information from author, make corrections ■ Send legend for typing(see page 32,33) ■ Send legend for translation(if necessary) -Send legend to linofilm(see pages 36, 37, 38) ■ First check a colour copy on cronaflex should be considered as a good means of checking, a guide for scribing, and for colour separation ■ Make corrections ■ Obtain a diazo image on scribecoat using Geology 100% Topo base 80% (not including brown) Water mask 40% 	<p>Manuscript not suitable for impression on scribecoat (heavy colouring on paper print, different base material, references or symbols to be replaced etc.)</p>	<p>Manuscript acceptable for impression on scribecoat</p>
<p>Manuscript not suitable for impression on scribecoat (heavy colouring on paper print, different base material, references or symbols to be replaced etc.)</p>	<p>Manuscript acceptable for impression on scribecoat</p>							
	<ul style="list-style-type: none"> -Prepare autopositive according to layout, grip it -Compile map, cross-section, legend. Fix line-work, make alterations -Obtain a diazo image on scribecoat using Geology = 100% Topo base = 80% Water mask = 40% 							
<p>Manuscript not suitable for impression on scribecoat (heavy colouring on paper print, different base material, references or symbols to be replaced etc.)</p>	<p>Manuscript acceptable for impression on scribecoat</p>							

GEOLOGICAL TIME TABLE

Official symbols and suggested colours

CENOZOIC	<u>C</u>	PALEOZOIC	<u>P</u>
QUATERNARY	Q	PERMIAN	<u>P</u>
RECENT	R	PENNSYLVANIAN	<u>P</u>
PLEISTOCENE	<u>P</u>	MISSISSIPPIAN	<u>M</u>
TERTIARY	T	CARBONIFEROUS	<u>C</u>
PLIOCENE	<u>P</u>	DEVONIAN	<u>D</u>
MIOCENE	<u>M</u>	SILURIAN	<u>S</u>
OLIGOCENE	<u>O</u>	ORDOVICIAN	<u>O</u>
EOCENE	<u>E</u>	CAMBRIAN	<u>C</u>
PALEOCENE	<u>P</u>	PROTEROZOIC	<u>P</u>
NEOGENE	<u>N</u>	HADRYNIAN	<u>H</u>
PALEOGENE	<u>P</u>	HELIKIAN	<u>H</u>
MESOZOIC	<u>M</u>	NEOHELIKIAN	<u>N</u>
CRETACEOUS	K	PALEOHELIKIAN	<u>P</u>
JURASSIC	J	APHEBIAN	<u>A</u>
TRIASSIC	<u>T</u>	ARCHEAN	<u>A</u>

REFERENCE LETTERS

Following modifiers are placed on the left side of the age symbol

Early - E, Middle - M, Late - L
lower - T, middle - m, upper - u

Following letters are placed on the right side of the age symbol

Small capital letters designate Group, Formation or Member

e.g. TRIASSIC SPRAY RIVER GROUP TsR

Lower case letters designate lithology and/or mineralogy

e.g. CRETACEOUS granite Kg

USAGE OF HYPHEN

between Formation and Member or Group

e.g. Helikian Adams Sound Formation upper member HAS-U

between lithology and mineralogy

e.g. muscovite-biotite granite g-bm

In legend blocks show commas between two or more: Formations, Groups, Members, lithologies and mineralogies

LINO-FILM

One size available: 12 pt. Other sizes from GSC Photomech. Order Helvetica Roman for all reference letters. If special letters* add the note "New GSC Grid Plate underlined in red"

EON	ERA		PERIOD		M.Y.
	ERA	SUB-ERA	OROGENY		
PHANEROZOIC	CENOZOIC		QUATERNARY		65
			TERTIARY		
	MESOZOIC		CRETACEOUS		136
			JURASSIC		195
			TRIASSIC		225
	PALEOZOIC		PERMIAN		280
			PENNSYLVANIAN		320
			MISSISSIPPIAN		345
			DEVONIAN		395
			SILURIAN		440
			ORDOVICIAN		500
			CAMBRIAN		570
PROTEROZOIC	HADRYNIAN				
	HELIKIAN	NEOHELIKIAN	GRENVILLIAN		935
		PALEOHELIKIAN	ELSONIAN		1390
APHEBIAN		HUDSONIAN		1735	
ARCHEAN		KENORAN		2480	

Colours

Yellow
Yellow, Grey

L. Green
Blue Green
D. Green

D. Grey
M. Grey
L. Grey
L. Blue
Blue Grey
D. Blue
D. Blue Grey

Orange Brown

Orange

D. Brown

Grey, Carmine

Colour Crayons Eagle Verithin *Prismacolor

Lemon Yellow 735½
Olive Green 739½

Light Green 738½
Grass Green 738
Dark Green 739

Warm Grey Medium 962*
Dark Grey 747½
Light Grey 734½
Sky Blue 740½
Sky Blue 919*
Ultramarine Blue 740
Slate Grey 936*

Orange Ochre 736½

Orange 737

Sienna Brown 746

Tuscan Red 746½

Granite Carmine Pink 743
Limestone Purple Lavender 742½

*Letters underlined in red pertain to the New GSC Grid Plate

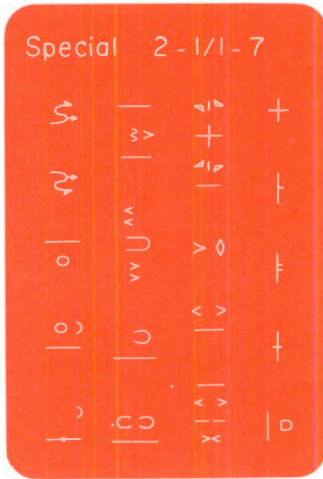
SAMPLES OF TEMPLATES

NO REDUCTION
(Heavy Geological information)

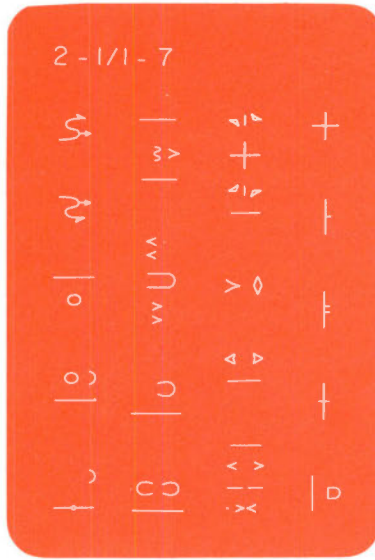
NO REDUCTION

AS SCRIBED
(No reduction)

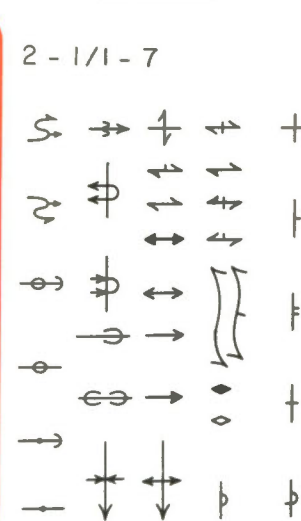
3 TO 2 REDUCTION



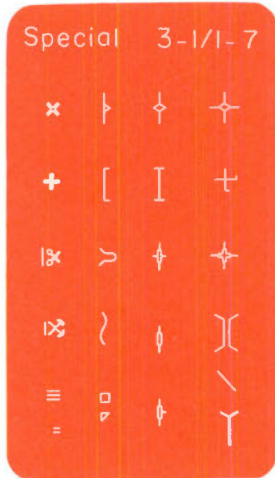
#Special 2 Cut. 7



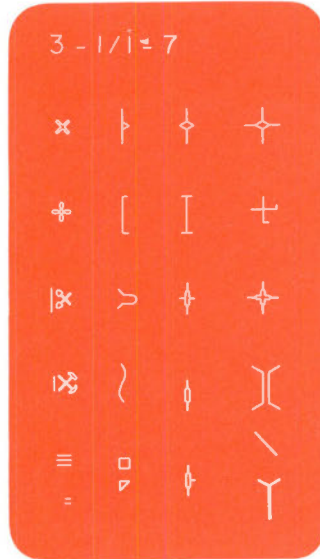
#2 Cut. 7



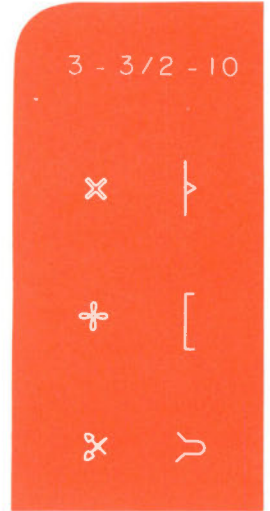
#2 Cut. 10



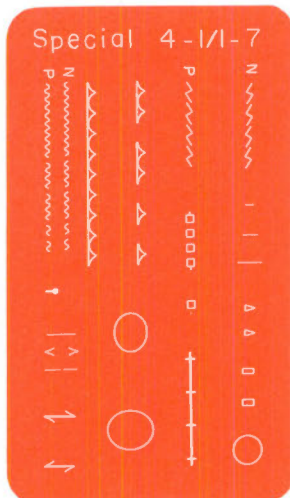
#Special 3 Cut. 7



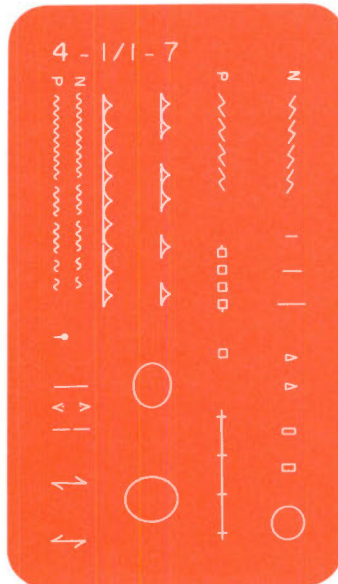
#3 Cut. 7



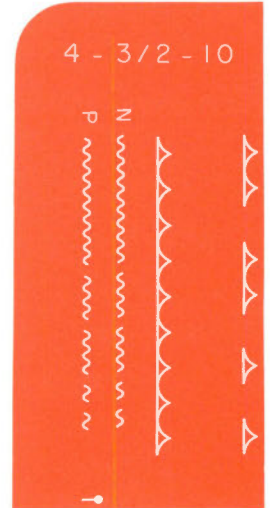
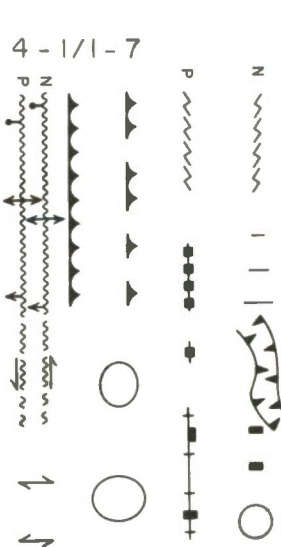
#3 Cut. 10



#Special 4 Cut. 7



#4 Cut. 7



#4 Cut. 10

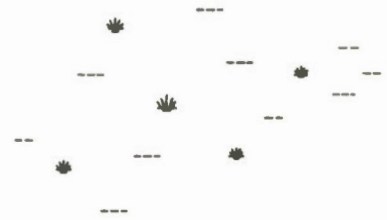
SAMPLES OF TEMPLATES (continued)

AS SCRIBED



#Marsh 6

Marsh 6



CREX

+++++

xxxxxx

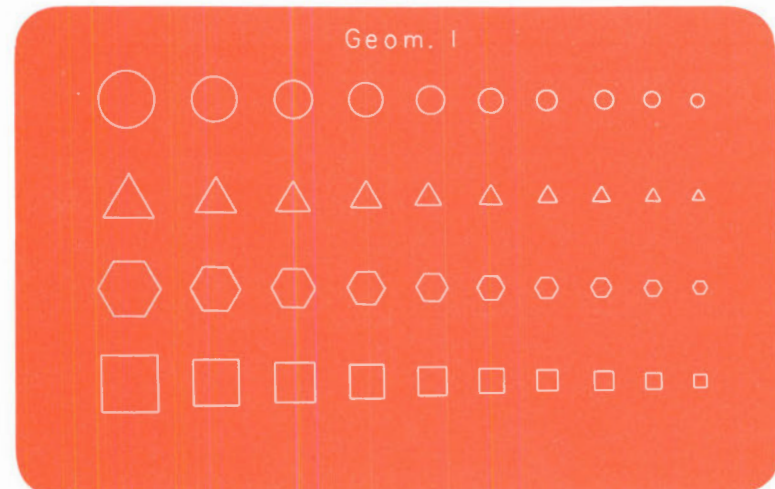
(Different sizes)



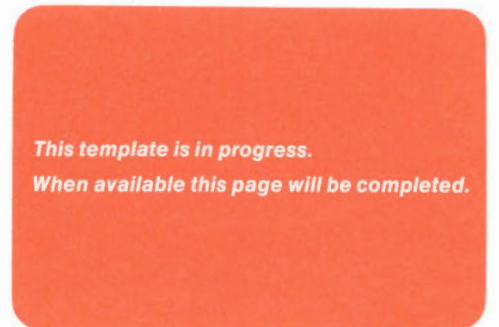
Esker



(Different sizes)



#Geom 1



#Geom 2

ABBREVIATIONS

NOTES: The legal titles of corporate names should not be abbreviated unless they appear in such form in the corporate name. Periods and spaces are omitted from certain United Nations and government agencies and corporations and other organizations (NATO, RCAF), Canada land designation; NE ¼sec., tp 22, rge.7, W. 3rd. mer.

For more information see Can. Gov. STYLE MANUAL pp.28-34 or GSC Guide for Preparation of Geological Maps and Reports pp.18-20 and pp.34-39.

Drop period after abbreviation within map-area

Abandoned _____ Abd.	Channel _____ Chan.	Ford _____ Fd.
Abbreviated _____ Abbr.	Chapter _____ Chap.	Fork _____ Fk.
Abridged _____ Abr.	Commission _____ Comm.	Formation _____ Fm.
Abstract _____ Abs.	Concession _____ Con.	Fort _____ Ft.
Airstrip _____ Airst.	Continued _____ Cont.	_____
Alaska _____ (not abbreviated)	County _____ Co.	_____
Anticline _____ Ant.	Cove _____ C.	_____
Approximately _____ Approx.	Creek _____ Cr.	_____
Archipelago _____ Arch.	Crossing _____ Cross.	General _____ Gen.
Association _____ Assoc.	_____	Geochemistry _____ Geochem.
and others _____ et al.	_____	Geographical _____ Geograph.
and the rest _____ etc.	_____	Geology _____ Geol.
_____	_____	Geophysics _____ Geophys.
_____	_____	Glacier _____ Gl.
_____	Dam _____ D.	Glaciology _____ Glaciol.
_____	Definition _____ Def.	Government _____ Govt.
_____	Department _____ Dept.	Gravel _____ Gra.
Bay _____ B.	District _____ Dist.	Gravel Pit _____ Gra. P.
Boulder _____ Boul.	Division _____ Div.	Group _____ Gp.
Boundary _____ Bdy.	_____	Gulch _____ G.
Braided Channel _____ Br. Chan.	_____	Gulf _____ G.
Branch _____ Br.	_____	_____
Bridge _____ Br.	_____	_____
British Columbia _____ B.C.	_____	_____
Brook _____ Br. or Bk.	East _____ E.	_____
Building _____ Bldg.	Economic _____ Econ.	Harbour _____ Har.
Bulletin _____ Bull.	Edition _____ Ed.	Head _____ Hd.
Bureau _____ Bur.	Elevation _____ Elev. or El.	Height _____ Ht.
_____	Establishment _____ Est.	Highway _____ Hwy.
_____	_____	_____
_____	_____	_____
Canada _____ Can.	Fall _____ F.	Idaho _____ (not abbreviated)
Canal _____ Can.	Fathom _____ Fm.	Inch _____ In.
Canyon _____ Can.	Fault _____ F.	Indian Reserve _____ IR.
Cape _____ C.	Ferry _____ Fy.	Industry _____ Ind.
Capitals and lower-case _____ C.&lc.	Figure _____ Fig.	Inlet _____ In.
Cemetery _____ C.	Fiord _____ Fd.	International _____ Intern.
Centigrade _____ C.	Foot, Feet _____ Ft.	
Centimetre _____ cm.		

**Abbreviation of length unit to be capitalized when used on scale*

Island (s) _____ I.(Is)

Islet _____ Lt.

Isthmus _____ Isth.,I.

Journal _____ J.

Junction _____ Jct.

Kilometre _____ km.

Laboratory _____ Lab.

Lagoon _____ Lag.

Lake _____ L.

Landing _____ Ldg.

Latitude _____ Lat.

Lighthouse _____ LH.

Literary _____ Lit.

Loch _____ L.

Longitude _____ Long.

Lot _____ L with no.

Maine _____ (not abbreviated)

Magnetic _____ Mag.

Manitoba _____ Man.

Manuscript, manuscripts _MS., MSS.

Maximum _____ Max.

Mean Sea-Level _____ M S-L.

Memoir _____ Mem.

Memorandum _____ Memo.

Meridian _____ Mer.

Metre _____ m.

Michigan _____ Mich.

Mile _____ M.

Mile-Post _____ M-P.

Millimetre _____ mm.

Minimum, minute _____ Min.

Minnesota _____ Minn.

Miscellaneous _____ Misc.

Montana _____ Mont.

Mount _____ Mt.

Mountain(s) _____ Mtn.(s)

Municipality _____ Mun.

Narrows _____ Nar.

National _____ Nat.

New Brunswick _____ N.B.

Newfoundland _____ Nfld.

New Hampshire _____ N.H.

New York _____ N.Y.

North _____ N.

Northeast _____ NE.

Northwest _____ NW.

North Dakota _____ N. Dak.

Northwest Territories _____ N.W.T.

Note Well _____ N.B.

Nova Scotia _____ N.S.

Number _____ No.

Obsolete _____ Obs.

Ohio _____ (not abbreviated)

Ontario _____ Ont.

Original _____ Orig.

Page, pages _____ P., pp.

Parish _____ Par.

Passage _____ Pass.

Peak _____ Pk.

Peninsula _____ Pen.

Pennsylvania _____ Pa.

Plateau (x) _____ Plat.

Point _____ Pt.

Pond _____ Pd.

Port _____ P.

Portage _____ P.

Post Office _____ P., Po.

Preliminary _____ Prelim.

Prince Edward Island _____ P.E.I.

Promontory _____ Prom.

Province _____ Prov.

Publication _____ Publ.

Québec _____ Qué.

Railway (s) _____ Ry.(s)

Range (Mtn) _____ Rge.

Range (Cadastral) _____ R.

Rapids _____ R.

Reef _____ Rf.

Reference _____ Ref.

Region _____ Reg.

Report _____ Rept.

Research _____ Res.

Reservoir _____ Res.

Review _____ Rev.

Revise _____ Rev.

River _____ R.

Road _____ Rd.

Rock _____ Rk.
