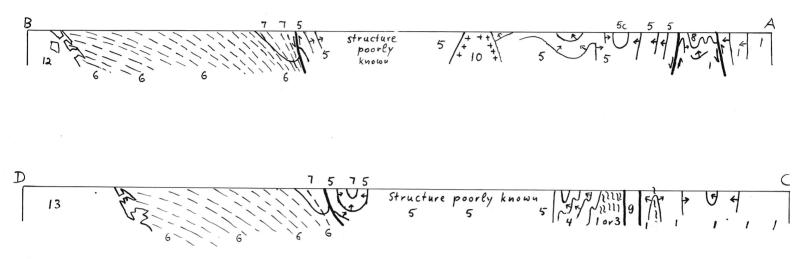


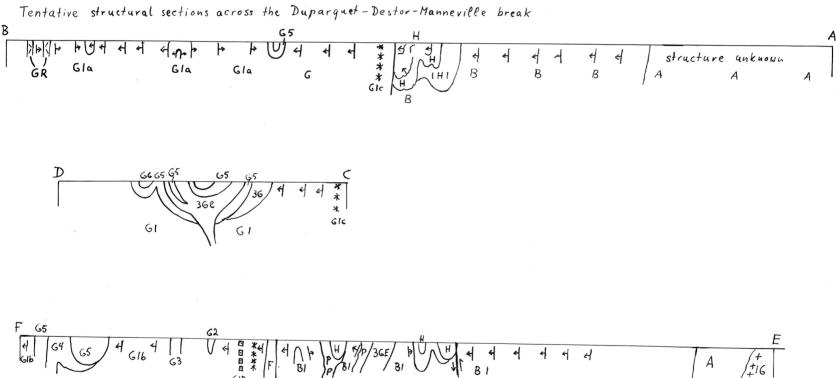
MINISTÈRE DES RICHESSES NATURELLES SERVICE DE L'EXPLORATION GÉOLOGIQUE QUÉBEC

FIGURE 1: Tentative structural sections

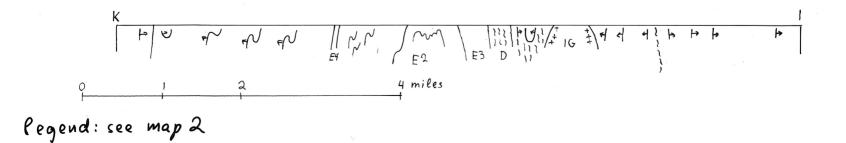


Tentative structural sections across the Rouyn-Noranda area

0 2 4 8 miles legend: see map 1



$$H = \frac{H}{G} = \frac{H}{F} =$$

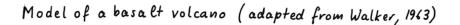


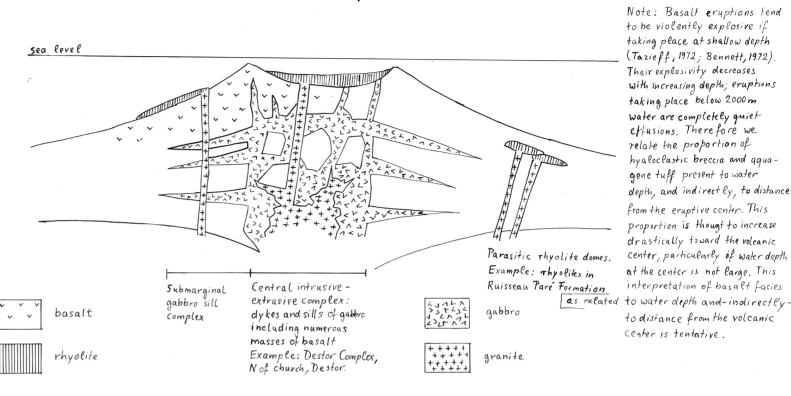
DP-138 1/5 QUÉBEC

Figure 2

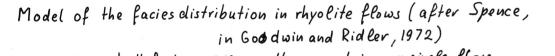
Models of the interpretation of volcanogenic facies as related to eruptive centers in the Duparquet -Destor - Cléricy area

E. Dimroth, 1973





Model of the facies interpretation of pyroclastic tuff breccias and ash flow tuffs Adapted from Fiske (1964), Bouma (1962), Walker (1970), Blatt, Middleton and Murray(1972)



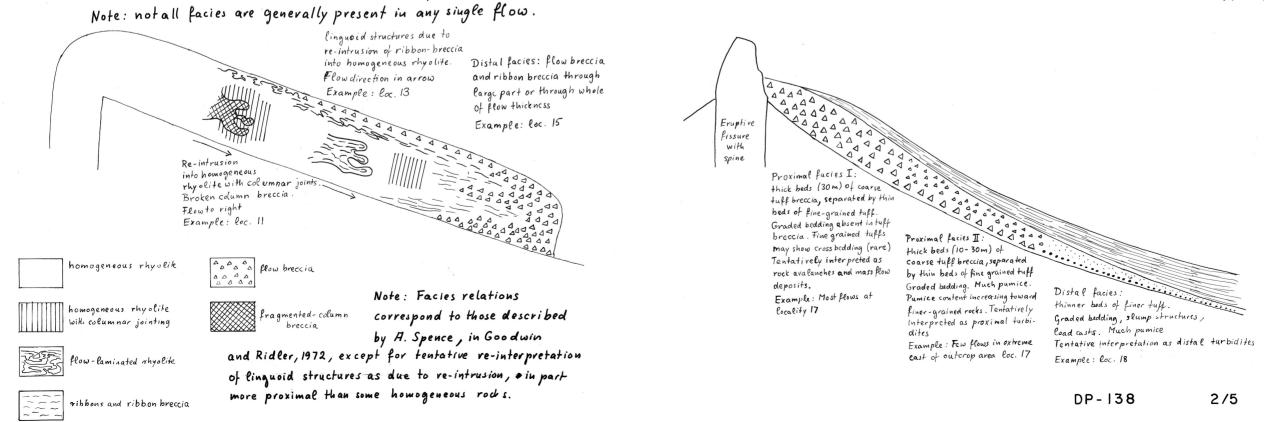
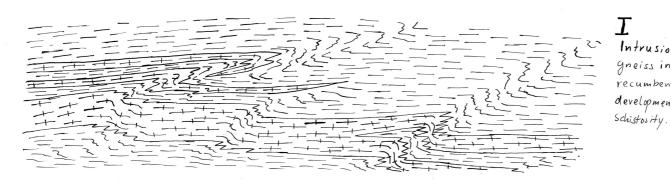
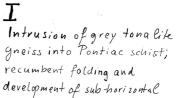




FIGURE 3





П

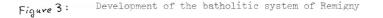
Intrusion of hornblende granodiorite dome. Updoming of granite batholith, beginning subsidence of marginal synclines.

Ш

Continuing up doming of batholith and subsidence of marginal syncline. Brittle fracturing at cold contact of butholith. Remaining macune durine into a durine magma draius into a dyke and sill system at margin of batholith, where it forms the heterogeneous granodiorite

\underline{N}

Continuing updoming and fracturing in the envelope of the batholith. Continuing intrusion of dykes of hetero geneous granodiorite





LEGEND

Grey tonalite gneiss Hornblende granodiorite and tonalite

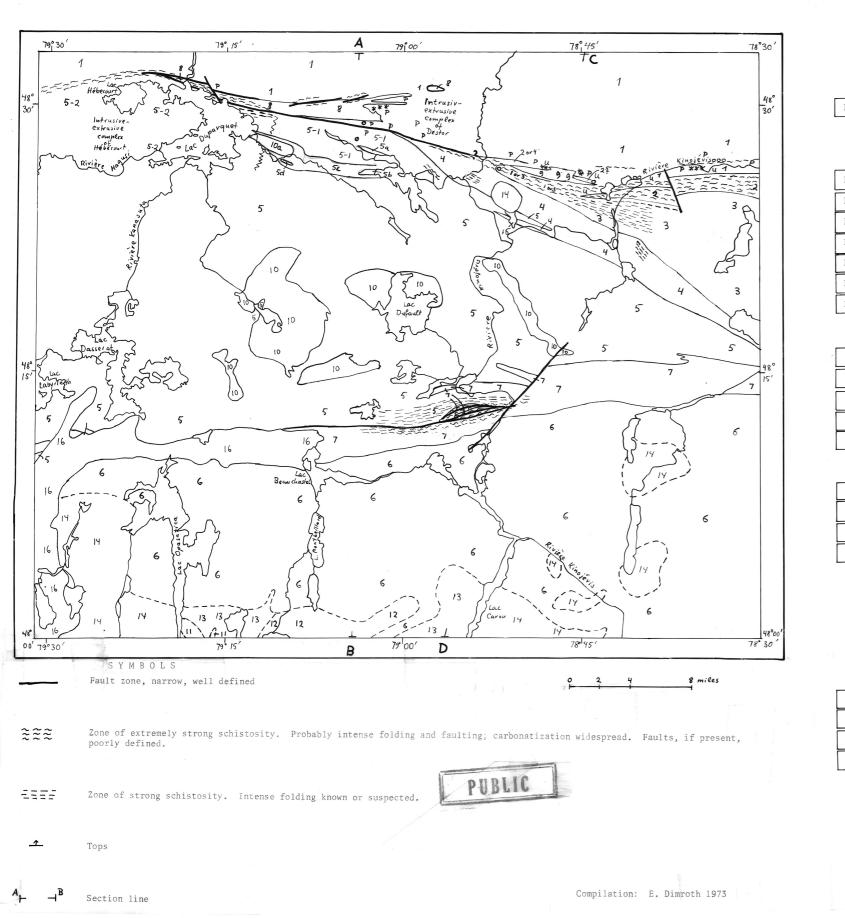
Pontiac schist

Heterogeneous granodiorite, older dyke generations

Heterogeneous granodiorite, younger dyke generations

MAP 1: GENERAL GEOLOGY OF THE ROUYN-NORANDA AREA





	PROTEROZOIC
	Cobalt Group
	ARCHEAN
	Intrusive rock
]	Pyroxenite ¹⁾
Ī	Uncorrelated "granitic" rocks ¹⁾
]	Heterogeneous granodiorite
1	Pyroxene monzodiorite
ĺ	Grey tonalite gneiss
	Layered gabbro complex of Duparquet lake ¹⁾
] .	"Granitic" intrusions related to volcanic rocks
	Intrusive and extrusive rocks of the Dup
	Intrusive breccia
	Porphyry dykes, stocks and sills
	Ultramafic dykes, stokks and sills (mostly pyroxenite)
	Rhyolite domes
	Ultramafic flows (komatiites and peridotites)
	Volcanic and sedimenta
1	Duparquet Group ²⁾
ĺ	Cadillac Group
	Pontiac Group
	Blake River Group
	5-1 Aphanitic basalts predominating
	5-2 Porphyritic and glomeroporphyritic basalts predominating (pr
	5d Rhyolite of Dalembert river
	5c Dacitic or andesitic ash flow tuff
	5b Rhyolite of Dufresnoy lake
	5a Lower rhyolite
	Kewagama Group
	Malartic Group
	Lake Caste Group ³⁾
]	Kinojévis Group ⁴⁾
tes:	 age relative to other units unknown
	 age relative to units 2-7 unknown
	³⁾ may be equivalent to unit 4
	⁴⁾ may be equivalent to unit 5

(modified from Wilson, 1962)

LEGEND

AN rocks

Duparquet-Destor-Manneville zone

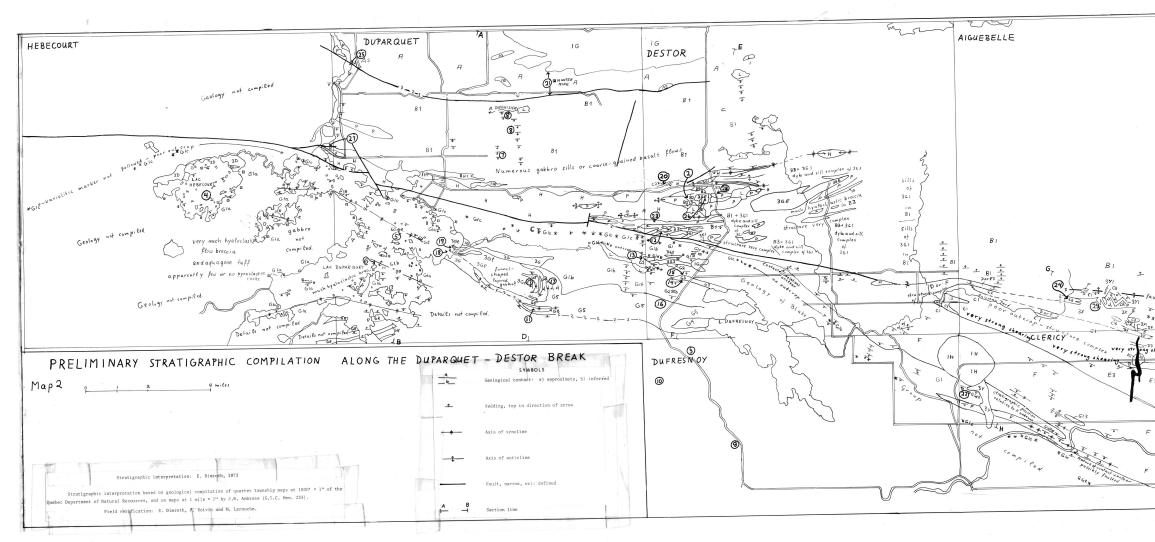
imentary rocks

ng (probably derived from Hébécourt intrusive-extrusive complex)

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MAP 2: PRELIMINARY STRATIGRAPHIC COMPILATION OF THE DUPARQUET-DESTOR ZONE

		LEGEND
MANNEVILLE	4	Diabase
ITANNEVILLE	and the	INTRUSIVE ROCKS
	_	Acidic intrusive rocks
	16	Granitic rocks, unsubdivided
	IHI	Syenite of Duparquet; probably equivalent of P
	р	Porphyries and micro-granites of the Duparquet-Destor sone: quart: porphyry, quart:-feldspar porphyry; micro-granite. Probably in part freder dykes and subvolcanic stocks and sills equivalent to rhyolites C3 and G2. Younger than gabbro JG1, older than Duparquet Group. Older than intrusive Breccia 3X.
		Mafic intrusive rocks
	3G	Gabbro, not correlated
	3G1	Layered gabbro complex of Duparquet lake (exact shape and age unknown)
	3GE	Composite sill: gabbro, pyroxenite, peridotite, locally coronitic. May be part of Destor Complex
	362	Gabbro; younger than rhyolite G2
	3G1	Gabbro of Destor Complex (sills and dykes, probably feeder dykes and subvolcanic equivalents of basalt Bl). Older than prophyries P and rhyolites C
	3Y	Pyroxenite, not correlated
	3Y1	Pyroxenite of Destor-Manneville fault zone. Older than intrusive breccia 3X and porphyries P.
	311	
		Intrusive breccia
	3Х	Polymictic intrusive breccia of Russeau Paré. Brecciated rocks of ruisseau Paré Formation and adjoining sediments. Older than folding
		SEDIMENTARY AND VOLCANIC ROCKS
	Н	Duparquet Group: conglomerate, arkose, greywacke, shale. Overlies porphyries and Kinojévis Group. Relations to Blake River Group unknown.
	G	Blake River Group
	GR	GR Uncorrelated rhyolite
		G6 Rhyolite of Dalembert river
71 8-		65 Dacitic or andesitic ash flow tuff
RI		
BI		G3 Lower Rhyolite: rhyolite flow overlain by rhyodacite flow, aphanitic
BIN BI		G2 Local rhyolite domes in lower part of Blake River Group
Piert2 2 probably faulted		G1 Mafic flows and flow breccias
Faulted 3 1 Fault C2 C1		Gla Porphyritic and glomeroporphyritic facies of Hébécourt and Duparquet lakes. Much flow breccia and aquagene tuff.
	14	Glb Aphanitic flows, little flow breccia.
** *	-	Glc Variolitic marker
much 3/1 (6 10) CI		Gld Coarsely porphyritic marker (flow breccia or pyroclastic rocks, minor pillow basalt)
CT /LAC.) CT /G/ 16	ŕ	Kewagama Group: greywacke, shale, minor conglomerate. Relations F/G poorly exposed, may be faulted in places. Appears to overlie E concordantly
early Caste 2 * 3 5 LA PAUSE	Е	Malartic Group
D very strong thearing		E4 Upper felsic unit E3 Upper mafic unit
		E3 Upper mafic unit E2 Lower felsic unit
E2 E2		El Lover mafic unit
		Contacts D/E not exposed
E2 E/	D	Lac Caste Group (may be equivalent to Kewagama Group): greywacke, shale, some conglomerate, little chert; strongly schistose and metamorphosed
Er h		Contacts C/D not exposed
	A - 1	C Kinojévis Group
F	C	Ruisseau Paré Formation
A HER A ST	1	C3 Rhyolite domes and tuffs
	A Contraction	C2 Ultramafic flows (komatiite, peridotite)
The FT N		Cl Basalt, minor flow breecia Relations B/C unclear, probably faulted
F AN A		
	В	Ruisseau Degussier Formation DP-138 5/5
		B1 Basalt flows, minor flow breccia and aquagene tuff
IK Lac F		Contact A/B not exposed, strongly schistose and possibly faulted
	A	Hunter Mine Formation (rhyolite, felsic pyroclastic rocks, minor mafic flows and dykes, subordinate greywacke, conglomerate, iron formation)
		an a