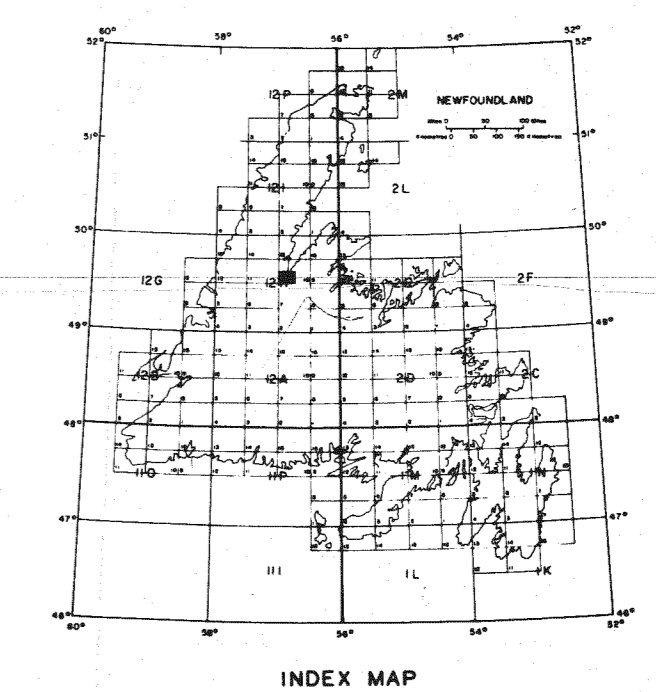


MAP 81-112
HAMPDEN SOUTHWEST 12H/10SW

MINERAL DEVELOPMENT DIVISION
 DEPARTMENT OF MINES AND ENERGY
 GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

		LEGEND	SYMBOLS
CARBONIFEROUS	POST-ACADIAN MOLASSE	<ul style="list-style-type: none"> 27 Deer Lake Group: Poorly indurated, red conglomerate and sandstone of the North Brook Formation 26 Anguille Group: Well indurated, thick bedded, gray sandstone and conglomerate with dark gray and black shale interbeds, minor red beds and buff to brown sandstone 	<ul style="list-style-type: none"> Geological boundary (defined, approximate, assumed, gradational) Unconformity (defined, approximate, assumed) Fault (defined, approximate, assumed) Reverse fault (defined, approximate, assumed) Bedding (tops known, unknown) Eutaxitic foliation Igneous flow banding Cleavage, schistosity Crenulation cleavage Gneissosity Joint Structural trends (from aerial photographs) Minor fold axes (first, second, third phase) Syncline (defined, approximate, assumed) Anticline (defined, approximate, assumed) Anticline and syncline (overturned) Fault zone Biotite isograd Drift covered area Melange with exotic blocks Breccia Dike Glacial striae (direction of ice movement known, unknown) Fossil locality Mine abandoned Mineral occurrence Outcrop, area of outcrop (only shown in areas of poor exposure)
DEVONIAN	ACADIAN INTRUSIVE SUITE (UNITS 23 - 25)	<ul style="list-style-type: none"> 25 Gale Brook Granite <ul style="list-style-type: none"> 25a Biotite ± muscovite, microgranite dikes 25d Chlorite-altered granite 25c Biotite granite porphyry 25b Fine grained biotite granite 25a Megacrystic biotite granite 24 Gabbro diabase and intrusion breccia; 24a, mafic dikes, possibly unrelated to Intrusive Suite 	
ACADIAN OROGENY			
SILURIAN		<ul style="list-style-type: none"> 23 Pre-tectonic, biotite granodiorite to tonalite 	
SILURIAN		<ul style="list-style-type: none"> 22 Pink felsite dikes and sills 21 Quartz monzonite sills 	
	SOPS ARM GROUP (UNITS 15 - 20)	<ul style="list-style-type: none"> 20 Sops Island Volcanic Member of the Natins Cove Formation: <ul style="list-style-type: none"> Predominantly ash flow tuff and rhyolite flows 20h Pumice flow 20g Rho-ignimbrite 20f Conglomerate and volcanic breccia 20e Laharic breccia 20d Mafic volcanic flow 20c Ash-flow tuff or ignimbrite, strongly welded 20b Ash-flow tuffs, unwelded and welded 20a Flow banded rhyolite 19 Natins Cove Formation: <ul style="list-style-type: none"> 19c Limestone 19b Lighthouse Member, white sandstone 19a Limestone 18 Simm's Ridge Formation: <ul style="list-style-type: none"> Brown weathering slate and argillite characterized by brown, siderite, spots; 18a, limestone; 18b, calcareous rich tuff 17 Frenchman's Cove Formation: <ul style="list-style-type: none"> Bedded, polymictic conglomerate and sandstone 16 Jackson's Arm Formation: <ul style="list-style-type: none"> Massive, polymictic boulder to cobble conglomerate; 16a, mafic volcanic flows 15 Lower volcanic unit: <ul style="list-style-type: none"> Predominantly ash flow tuffs and rhyolite flows 15f Mafic volcanic flows 15e Dolomite and thin bedded limestone 15d Polymictic conglomerate and sandstone 15c Felsic volcanic breccia 15b Ash-flow tuff, welded and unwelded 15a Flow banded rhyolite 14 Quartz-carbonate schist. Age and origin uncertain 	
	VOLCANIC AND SEDIMENTARY COVER ROCKS		
SILURIAN OR OLDER		<ul style="list-style-type: none"> 13 Coney Head Complex <ul style="list-style-type: none"> 13a Zone of mafic to intermediate dikes 13d Leucocratic, muscovite, granite sheets 13c Reddish, biotite, graphic microgranite 13b Medium to coarse grained biotite tonalite 13a Gabbro, quartz gabbro 12 Gabbro metagabbro, 12a, talc-carbonate schist; 12b, trondhjemite 11 Murrays Cove Schist: <ul style="list-style-type: none"> Polydeformed greenschist, minor metagabbro and red chert 10 Maiden Point Formation equivalents: <ul style="list-style-type: none"> Fine to medium grained, dark green to gray graywacke, rare quartz pebble conglomerate 9 Second Pond Melange: <ul style="list-style-type: none"> 9a, Black-graphitic slate; 9b, with calc-argillite beds; 9c, with serpentinite blocks and slivers 	
	CONTINENTAL SLOPE AND OCEANIC ROCKS		
MIDDLE ORDOVICIAN TO CAMBRIAN	SOUTHERN WHITE BAY ALLOCTHON (UNITS 9 - 13) EMBLACED IN TACONIC OROGENY		
	THRUST CONTACT		
LOWER ORDOVICIAN AND/OR CAMBRIAN	CONEY ARM GROUP (UNITS 3 - 8)	<ul style="list-style-type: none"> 8 Undivided, recrystallized, limestone, dolostone and marble. May include 6, 7, and younger, unseparated, units 7 Dark gray, recrystallized, bioturbated limestone, minor, black, cherty, dolostone, stromatolite mounds. 6 Thick bedded, recrystallized, white dolostone, dolomitic slate, minor interbedded dark gray limestone 5 Hawks Bay Formation equivalents: <ul style="list-style-type: none"> Quartz sandstone, sandy dolomite, oolitic limestone, calcareous slate 4 Forteau Formation equivalents: <ul style="list-style-type: none"> Graphitic slate and phyllite, calcareous schist and marble; minor psammitic schist; 4a, basal white marble member 3 Beaver Brook Formation: <ul style="list-style-type: none"> Arkose, sandstone, pebble conglomerate 	
	AUTOCHTHONOUS PLATFORMAL SEQUENCE		
CAMBRIAN			
PRECAMBRIAN OR YOUNGER		<ul style="list-style-type: none"> 2 Devils Room granite: <ul style="list-style-type: none"> Undeformed granite, age unknown 2d Medium grained biotite ± muscovite granite 2c Porphyritic biotite granite 2b Fine grained pink felsite 2a Megacrystic biotite granite 	
	BASEMENT		
PRECAMBRIAN		<ul style="list-style-type: none"> 1 Long Range Complex: <ul style="list-style-type: none"> Undivided biotite and hornblende gneiss, augen granite gneiss, foliated granite, metagabbro and amphibolite; 1a, quartz-feldspathic and calc-silicate gneiss inclusions in 25 (age unknown); 1b, medium grained, massive granite (may be equivalent to 2) 	



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 REF. OF DRAWING NO. MAP # 81-112
 DETAILS HANDLED SUBMITTED BY W. R. SMYTH
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 BANDE DE 24 1/2" STRIP