

MAP 2009-28, OPEN FILE NFLD/3053

Geology by B.H. O'Brien (2003, 2005); field assistance by C. Pennell (2003) and B. Sparrow (2005). Geological point data assembled by L. Cook (2009).

## GIS/digital cartography by T. J. Sears.

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Approximate magnetic declination, 2009, at centre of map 20° 43' west, decreasing 7.1 annually.

Elevations contoured in metres above mean sea level. Universal Transverse Mercator Projection (UTM) Zone 21.

North American Datum (NAD) 1927.

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This map is subject to revision and modification. Symbols for bedding and selected minor structures are plotted directly at the exposure location.

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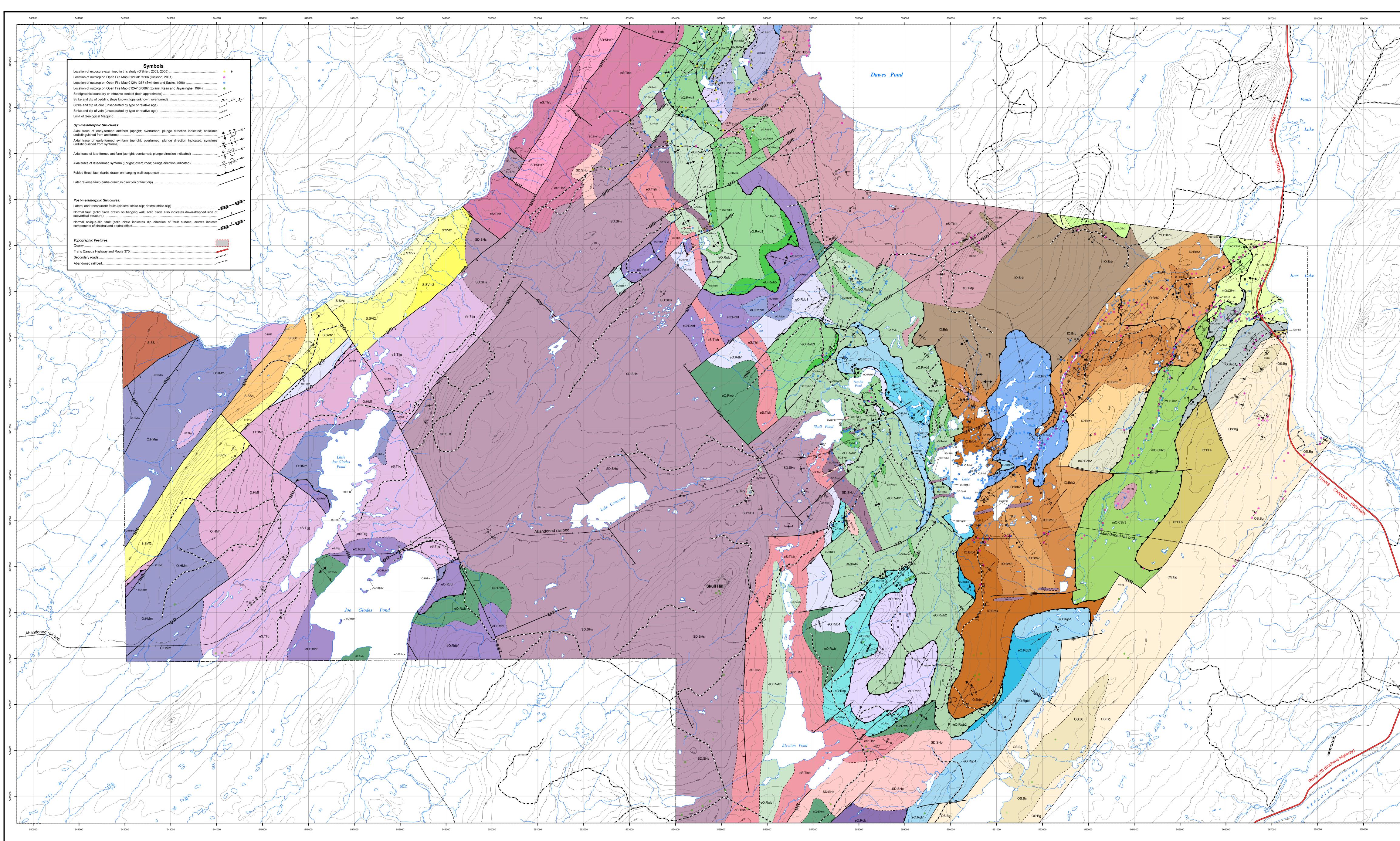
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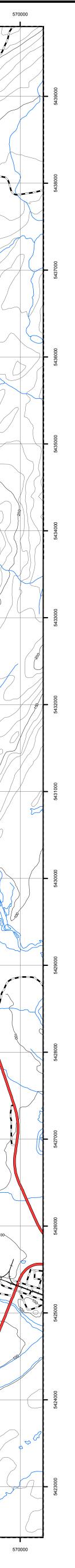
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MAP 2009 - 28 GEOLOGY OF THE LITTLE JOE GLODES POND – CATAMARAN BROOK REGION WITH EMPHASIS ON THE ROBERT'S ARM VOLCANIC BELT\*(PARTS OF NTS 12H/1 AND 12A/16),WEST-CENTRAL NEWFOUNDLAND

0.5 0.25 0 0.5 1 1.5 Kilometres



POST-OF	ROOVICIAN INTRUSIVE ROCKS	GEND West Lake Broo	ok division
Posttector	hic Intrusions an to Early Devonian(?)	eO:Rwb	Unseparated mafic to intermediate volcanic strata and less common mafic to intermed intrusive rocks; extrusive rocks are generally represented by a variably altered mineralized sequence of pillowed basalt, basaltic andesite and andesite; unsepara units of gabbro and diorite that are regionally metamorphosed and inhomogeneou
Skull Hill Quart		eO:Rwb5	deformed Dark grey, medium grained, equigranular gabbro sill whose composition lies between of the island arc-related calc-alkaline suite and non-arc tholeiitic suite rocks (Sario
	grained micrographic porphyry and hematitic granophyre; each intruded by conjugate dykes of porphyritic and aphanitic diabase, quartz porphyritic granite and aplite (Skull Hill Quartz Syenite, cf., Kean and Jayasinghe, 1982; Williams et al., 1985; Evans et al., 1994)	eO:Rwb4	2007); in places, host rocks are relatively fresh and preserve pristine volcanic features Dark grey, medium- to fine-grained, locally porphyritic, silicic gabbro and chloritic dic having abundant pyrite and minor chalcopyrite and arsenopyrite; forming folded sills
SD:SHs?	Unexposed extension of Unit <i>SD:SHs</i> ; block-faulted enclaves of the Springdale Group (Unit <i>S:SS</i> ) may be included within Unit <i>SD:SHs</i> in the area to the south and east of the South Brook granodiorite (Unit <i>eS:TIsb</i> )	eO:Rwb3	feeder dykes crosscutting regionally altered parts of units <i>eO:Rwb1</i> , <i>eO:Rwb2</i> <i>eO:Rwb3</i> Generally dark to light green, porphyritic to aphanitic, locally vesicular, fine-grained pi
Skull Hill porph	Quartz-feldspar porphyry and porphyritic hornblende-biotite microgranite (apophyses and		lava, pillow breccia, massive mafic flows and mafic tuff; dominantly andesite and bas andesite comprising an island-arc-related suite that is compositionally transitional betw the underlying arc tholeiite and calc-alkaline flows of this division (Sarioglu, 20 widespread chalcopyrite–sphalerite mineralization is mainly developed in Unit <i>eO:Rwb</i>
SD:SHp	epipheses of Unit <i>SD:SHs</i> ); satellite bodies of saussuritized felsic porphyry having abundant pyrite cubes, sericite and secondary albite; in the area southeast of Election Pond, later sheets of fresh gabbro intruded by fractured diabase dykes and offset aplite veins (possibly part of Unit 12a of Evans et al., 1994)	eO:Rwb2	alteration zones marked by net-veined lime-green basalt; Unit <i>eO:Rwb3</i> andesite is loo interstratified with calc-alkaline basalt similar to those in Unit <i>eO:Rwb1</i> Generally dark to light green, porphyritic to aphanitic, locally vesicular, fine-grained pi
kull Hill diorite	P Dark grey, medium-grained, equigranular diorite and subordinate, coarse-grained, quartz-	eO.Rwb2	lava, pillow breccia, massive mafic flows and mafic tuff; dominantly pillowed basa island-arc tholeiite type (Sarioglu, 2007) interstratified with calc-alkaline basalt simila those in Unit <i>eO:Rwb1</i> ; in places, net-veined lime-green basalt
SD:SHd	bearing gabbro occurring as satellite bodies and marginal sheets to the Skull Hill Quartz Syenite (predating units <i>SD:SHs</i> and <i>SD:SHp</i> in certain localities); in places, silicified pyritic diorite displaying hematite-carbonate-sericite pseudomorphs after plagioclase and having common antiperthite; includes part of Unit SD:gd of Swinden and Sacks (1996)	eO:Rwb1	Generally dark green to dark grey, porphyritic to aphanitic, locally vesicular, fine-grai pillow lava, pillow breccia, massive mafic flows and mafic tuff; dominantly subalka basalt representative of the calc-alkaline suite (Sarioglu, 2007); chloritized high-Al ba and subordinate basaltic andesite displaying localized chalcopyrite—pyrite mineraliza
	neous suite Ite Silurian(?)	Starkes Pond d	
eS:TI	Intrusive rocks of the Topsails igneous suite (cf. Whalen, 1989), including plutonic and hypabyssal rocks of the Topsails intrusive suite (cf. Williams et al., 1985; Whalen and Currie, 1988)	eO:Rsp eO:Rsp?	Mainly unseparated felsic volcanic rocks, including light grey massive rhyolite and alt quartz-phyric rhyolite, locally hosting sphalerite and galena mineralization, and intrude large bodies of quartz-feldspar porphyry; light pink, flow-banded vitric rhyolite havi relatively thin cap rock of light grey ash tuff and thixatropically deformed lamin
outh Brook gr eS:TIsb	Very poorly exposed, light grey, medium-grained, equigranular granodiorite; subordinate,		siltstone; chalcopyrite-bearing rhyolite breccia grading to felsic lithic tuff and interbed with purplish-red laminated chert or containing blocks of purplish-red chert; well-strati quartz-feldspar crystal tuff and pyritic quartz-sericite schist crosscut by pretectonic sil quartz-feldspar porphyry and associated gabbro. The outcrop area of Unit <i>eO:Rsp(</i>
	melanocratic, amphibole-rich, poikilitic phase of fine-grained quartz diorite in two localities (E551950 N5436551; E549600 N5433062). The isotropic granodiorite is systematically jointed and is locally seen to be intruded by partially assimilated swarms of back-veined mafic dykes; a light pink to rose granodiorite is silicified, pyritized and epidotized near a		unexposed, but it has large blocks and possible subcrop of flow-banded rhyolite; ( regional disposition of the Gullbridge structural tract, refer to O'Brien, 2008)
	cemented fault breccia that is intruded by coarse-grained red syenite and diabase. Modified from Unit DgT (Dean, 1977), a small granitic stock purported to be hosted by rocks of the Silurian Springdale Group on the north bank of South Brook	Early to Late Hungry Mountai	in Complex
eS:Tidp	anodiorite Mainly light grey, medium-grained, equigranular, isotropic, hornblende-biotite granodiorite locally displaying cognate xenoliths; fine-grained, porphyritic biotite granite and felsic	O:HMf	Light grey, medium to coarse-grained, equigranular, blue quartz-bearing tonalite; schis tonalite displaying grey quartz ribbons crosscut by folded bodies of quartz-feld porphyry, pegmatite and diabase; minor, quartz-phyric hornblende granodiorite intrude mafic dykes displaying an internal wall-to-wall sigmoidal foliation; intrusive sheet
	microporphyry forming an outer zone partially surrounding the granodiorite; all rocks are host to multiple swarms of mafic and felsic minor intrusions. In the east, massive granodiorite encloses variably oriented enclaves of porphyroblastic metasedimentary schist (Baker Brook tract); whereas, in the west, it contains large accidental xenoliths of		schistose tonalite having aligned trains of partially disaggregated xenoliths of alt metagabbro; marginal podiform bodies of quartz-rich microporphyry or anastomo veinlets of fine-grained tonalite
	mafic schist (Gullbridge tract). Older <i>eS:Tldp</i> intrusions, which are net-veined, sucrose and unfoliated, are made up of biotite-bearing epidiorite and glomerophyric gabbro having abundant magnetite and secondary sphene; both present as small bodies near faults affecting the northwest and northeast margins of the granitic pluton. North of Dawes Pond	O:HMm	Dark green to black, coarse-grained, equigranular pyroxene gabbro transitional schistose gabbro, amphibolite gneiss and banded mylonite; in places, narrow shear zo in chloritized and epidotized metagabbro occupied by unfoliated tonalite veins
	and Powderhorn Lake, vertical satellite dykes of altered gabbro and younger fresh gabbro display straight chilled margins where they crosscut flat-lying metamorphic country rocks. The term, Dawes Pond granodiorite (cf. Dickson, 2001), replaces Dawes Pond granite (Swinden and Sacks, 1996)		ata Overlying Exploits Subzone (Dunnage Zone) le Ordovician Transgressive Overlap Sequence
kull Hill Brook		Late Ordovic OS:B Badger g	cian to Early Silurian(?)
eS:TIsh	hornblende-biotite granodiorite displaying commingling relationships with iron oxide-rich gabbro; in places, granodiorite contains partially digested screens of coarse-grained, equigranular, isotropic gabbro transitional to fine-grained, xenocrystic or porphyritic gabbro; there, gabbros having abundant epidote-quartz veinlets are intruded by	Sansom greywa	Light grey, size-graded, gritty and granular wacke interstratified with medium-grai
	granodiorite dykes. In other areas, the granodiorite intrusion illustrates zones of pillowed to globular gabbro showing disaggregated chilled margins or displaying cuspate and lobate edges; in a few localities, gabbroic dykes belonging to Unit <i>eS:Tlsh</i> display straight		planar- bedded sandstone turbidite; minor, light grey to buff, laminated arg interbedded with sandstone turbidite; massive gritty wacke displaying isolated clas dark siltstone injected by sandstone or pebble dykes; rare, centimetre-scale interva dark grey, thin-bedded siltstone turbidite; locally, debrite horizons illustrate slump-fo
	chilled margins where they crosscut granodioritic host rocks. Pyritic quartz-feldspar porphyry, similar to rocks in the adjacent body of Unit <i>SD:SHp</i> , intrudes Unit <i>eS:Tlsh</i> granodiorite near Election Pond; southwest of Dawes Pond, Unit <i>eS:Tlsh</i> granodiorite includes quartz-bearing net-veined diorite displaying iron-oxide-amphibole pseudomorphs		intraclasts of sandstone turbidite and rip-up clasts of parallel-laminated argillite. Note in the area surveyed, where the entire <i>OS:Bg</i> succession is biostratigraphi unconstrained, the name Sansom Greywacke was used by Dean (1977) to distingui from the Point Leamington Greywacke; cf. Sansom greywacke as defined in William
ittle Joe Glode	after orthopyroxene phenocrysts, as seen elsewhere in Unit <i>SD:SHd</i> diorite <b>Provident State</b> Meinly measure, light gray medium grained, equiprenular hereblanda, biotite grapediarite	OS:Bc	al. (1985) Unfossiliferous siliciclastic conglomerate and massive to thick-bedded pebbly wa forming discontinuous lenticles in Unit OS:Bg (cf. Kean and Jayasinghe, 1982); w
eS:TIjg	Mainly massive, light grey, medium-grained, equigranular, hornblende-biotite granodiorite; abundant hematite-silica alteration along systematic joints and remotely sensed lineaments, especially in the southwestern part of the granodiorite intrusion (the map unit is very poorly exposed toward the northeast); in places, younger bodies of composite		such polymictic beds have scoured bases, exotic boulders, cobbles and pebbles are rounded and typically matrix-supported; in one locality, conglomerate passes laterally a pebbly to gritty wacke succession that contains a tabular detrital raft of interbed black siltstone and pyritic sandstone (lithologically similar to strata exposed in the adja
	mafic—felsic porphyritic dykes separate Unit <i>eS:Tljg</i> rocks from the Ordovician Hungry Mountain Complex; immediately west of Joe Glodes Pond, Unit <i>eS:Tljg</i> granodiorite is possibly intruded by a swarm of Unit <i>SD:SHp</i> dykes (included in Unit 13 of Evans et al., 1994) and a similar relationship may occur northeast of Patricks Pond (extension of Unit		Powderhorn Lake tract). Unnamed southern lenticle of Unit <i>OS:Bc</i> taken from Evans e 1994; map unit is included within the Sansom Greywacke of Dean (1977) and is unseparated in the Badger group of Rogers et al. (2005)
arly to Late		Middle to Late C Baker Brook str <i>Rocky Brook d</i>	ructural tract <sup>1</sup>
arly to Late pringdale Gro S:SS	Silurian Unseparated volcanic and sedimentary rocks; possibly includes welded ash tuff assigned to Unit 5 of Coyle (1992) cks	Baker Brook str Rocky Brook d IO:Brb	Drdovician(?) ructural tract <sup>1</sup> <i>livision</i> Unseparated volcaniclastic sedimentary rocks, including massive to thick bed tuffaceous wacke and pebbly wacke; light grey, thin-bedded sandstone turbidite parallel-laminated argillite are exposed in the southern part of the unit; the unit may lo include strata belonging to the Eastern Baker Lake Brook division of the Baker B structural tract
arly to Late pringdale Grou S:SS edimentary ro S:SSc	Silurian Unseparated volcanic and sedimentary rocks; possibly includes welded ash tuff assigned to Unit 5 of Coyle (1992)	Baker Brook str Rocky Brook d	<ul> <li>Drdovician(?)</li> <li>Pructural tract 1</li> <li>Iivision</li> <li>Unseparated volcaniclastic sedimentary rocks, including massive to thick bed tuffaceous wacke and pebbly wacke; light grey, thin-bedded sandstone turbidite parallel-laminated argillite are exposed in the southern part of the unit; the unit may loi include strata belonging to the Eastern Baker Lake Brook division of the Baker B structural tract</li> <li>Light grey, massive or thickly stratified, size-graded, crystal-rich wacke interbedded light-green, parallel-laminated, shard-rich argillite; minor, buff-weathered felsic ash rare, thin-bedded felsic lithic tuff</li> <li>Grey siliceous argillite and maroon chert interstratified with red siltstone turbid porphyroblastic grey siltstone, nodular green argillite and concretionary ma sandstone; light grey, thin-bedded sandstone turbidite having very thin horizons of light grey.</li> </ul>
arly to Late pringdale Grou S:SS edimentary ro S:SSc	<ul> <li>Silurian</li> <li>Unseparated volcanic and sedimentary rocks; possibly includes welded ash tuff assigned to Unit 5 of Coyle (1992)</li> <li><i>cks</i></li> <li>Light grey, poorly stratified pebbly sandstone and massive clast-supported conglomerate containing well-rounded cobbles and boulders of ignimbrite; subordinate lahars displaying variably textured felsic volcanic rocks and showing angular fragments of slump-folded mudstone; banded quartz-feldspar porphyry crosscutting lahar and overlying clast-supported conglomerate; minor, red sandstone having abundant clasts of rounded quartz and detrital mica set in a hematite-rich matrix</li> <li>Grey to buff, clast-supported volcanic breccia having large blocks of felsic ash tuff, banded and massive rhyolite, and porphyritic basalt; minor grey and red sandstone; intruded by abundant gabbro sills illustrating primary igneous layering and displaying amygdaloidal or</li> </ul>	Baker Brook str Rocky Brook d IO:Brb IO:Brb4	<ul> <li>Drdovician(?) ructural tract <sup>1</sup></li> <li>Ivision</li> <li>Unseparated volcaniclastic sedimentary rocks, including massive to thick bed tuffaceous wacke and pebbly wacke; light grey, thin-bedded sandstone turbidite parallel-laminated argillite are exposed in the southern part of the unit; the unit may lo include strata belonging to the Eastern Baker Lake Brook division of the Baker B structural tract</li> <li>Light grey, massive or thickly stratified, size-graded, crystal-rich wacke interbedded light-green, parallel-laminated, shard-rich argillite; minor, buff-weathered felsic ash rare, thin-bedded felsic lithic tuff</li> <li>Grey siliceous argillite and maroon chert interstratified with red siltstone turb porphyroblastic grey siltstone, nodular green argillite and concretionary ma sandstone; light grey, thin-bedded sandstone turbidite having very thin horizons of weathered, felsic lithic tuff; minor, grey quartz-feldspar crystal tuff interbedded with laminated siltstone; pretectonic quartz-feldspar porphyry sills intruding green siltstone Dominantly grey-green, well-stratified or sheeted bodies of gritty wacke and pe sandstone; in places, individual beds of pebbly wacke grading to gritty and sandy wa subordinate medium-bedded tuffaceous wacke displaying small argillite intraclasts; m</li> </ul>
arly to Late pringdale Grou S:SS edimentary ro S:SSc	Silurian Unseparated volcanic and sedimentary rocks; possibly includes welded ash tuff assigned to Unit 5 of Coyle (1992) cks Light grey, poorly stratified pebbly sandstone and massive clast-supported conglomerate containing well-rounded cobbles and boulders of ignimbrite; subordinate lahars displaying variably textured felsic volcanic rocks and showing angular fragments of slump-folded mudstone; banded quartz-feldspar porphyry crosscutting lahar and overlying clast-supported conglomerate; minor, red sandstone having abundant clasts of rounded quartz and detrital mica set in a hematite-rich matrix Grey to buff, clast-supported volcanic breccia having large blocks of felsic ash tuff, banded and massive rhyolite, and porphyritic basalt; minor grey and red sandstone; intruded by abundant gabbro sills illustrating primary igneous layering and displaying amygdaloidal or glomerophyric texture; pink, quartz-feldspar porphyry dykes crosscutting gabbro sills. This unit may include talus breccias and agglomerate purported to outcrop near South Brook, close to its confluence with Little Joe Glodes Brook [previously assigned to Coyle's (1992) Unit 2]. Gabbro sills within the unit are also observed to intrude mafic gneiss from the	Baker Brook str Rocky Brook dr IO:Brb IO:Brb4 IO:Brb3	<ul> <li>Drdovician(?)</li> <li>Pructural tract 1</li> <li>Ivision</li> <li>Unseparated volcaniclastic sedimentary rocks, including massive to thick bed tuffaceous wacke and pebbly wacke; light grey, thin-bedded sandstone turbidite parallel-laminated argillite are exposed in the southern part of the unit; the unit may lo include strata belonging to the Eastern Baker Lake Brook division of the Baker B structural tract</li> <li>Light grey, massive or thickly stratified, size-graded, crystal-rich wacke interbedded light-green, parallel-laminated, shard-rich argillite; minor, buff-weathered felsic ash rare, thin-bedded felsic lithic tuff</li> <li>Grey siliceous argillite and maroon chert interstratified with red siltstone turb porphyroblastic grey siltstone, nodular green argillite and concretionary ma sandstone; light grey, thin-bedded sandstone turbidite having very thin horizons of weathered, felsic lithic tuff; minor, grey quartz-feldspar crystal tuff interbedded with laminated siltstone; pretectonic quartz-feldspar porphyry sills intruding green siltstone</li> <li>Dominantly grey-green, well-stratified or sheeted bodies of gritty wacke and pe sandstone; in places, individual beds of pebbly wacke grading to gritty and sandy wa subordinate medium-bedded tuffaceous wacke displaying small argillite intraclasts; might grey, thin-bedded sandstone turbidite, laminated siltstone and siliceous argintruded by calc-alkaline gabbro sills (Sarioglu, 2007); locally, poorly stratified de horizons having a black siliceous siltstone matrix and illustrating chaotically folded bi of buff laminated argillite; in one locality [E565153 N5434369], light grey volcanic breater of the source of the siltstone to portion of the source of the source</li></ul>
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Basal lenticle made up of generally unaltered, light grey to buff, size-graded, felsic lithic tuff and subordinate rhyodacite breccia (Sarioglu, 2007); black chloritic tuff locally replaced by semi-massive pyrite and illustrating rare porphyroblasts of chalcopyrite and replaced by semi-massive pyrite in the definition of the sector of t

sphalerite (typically present within highly deformed parts of the unit); graded beds of quartz-feldspar crystal tuff intercalated with minor mafic lithic tuff of calc-alkaline basalt composition (Sarioglu, 2007); within some thinly stratified intervals of felsic crystal tuff, rare laminated horizons of light grey argillite, dark grey phyllite, red siltstone and maroon chert

vertically into mixed felsic-mafic agglomerate

eO:Rdb1

eO:Rdb2 Thickly stratified lenticles of bimodal pyroclastic strata dominated by felsic lithic tuff gradational to felsic crystal tuff; subordinate mafic breccia displaying bombs of vitric felsic tephra and interbedded with felsic lithic tuff; minor pillow lava and hyaloclastite passing