



Petrography and Chemistry of Dykes in the Queen Charlotte Islands, British Columbia

by J.G.Souther and Ebo Bakker

F.G.P. (Queen Charlotte Basin) Contribution

Cordilleran and Pacific Geoscience Division
Geological Survey of Canada
Energy, Mines and Resources, Canada

Sample Number	Field Number	Formation Intruded	PHENOCRYSTS					GROUNDMASS AND APHYRIC ROCKS					ALTERATION					Amygdules % and mineralogy					
			% and mineralogy					% Primary minerals					% Secondary minerals										
			Total %	Size Range	Feldspar	Quartz	Clinopyroxene	Orthopyroxene	Amphibole	Opaques	Pseudomorphs	Size Range	Plagioclase	Alkali Feldspar	Quartz	Clinopyroxene	Orthopyroxene	Hornblende	Opacques	Other			
Rennell Sound Area																							
1* 151067	R1	2,033 Syn	8	f-m	5 olg	KF	-	-	-	x bi, Q, mus	rc-cc	3 pc	55	25	-	-	-	s-m	10	-	x ser, clay	3 cal, Q	
2 152687	R1	2,030 Syn	5	f-m	5 san	-	-	-	-	-	rc-cc	45 pc	55	25	-	-	-	s-m	10	-	x mus, ser	2 Q, cal	
3 130387	R1	2,544 Syn	5	f-m	5 san	-	-	-	-	-	rc-cc	3 olg	-	-	-	-	-	s-m	10	-	-	-	
4 130387	R1	2,623 Ms	19	c-vf	5 olg	-	3 aug	-	-	1 bi, ep	cc	-	-	-	-	-	-	70	-	-	-	-	
5 151667	A2	2,654 Syn	1	f-m	5 x low an	-	-	-	-	-	vf-m	55 olg	-	15	-	10	-	s-m	10	5	-	-	
6 151667	A2	2,654 Syn	20	m-vf	15 lab-and	-	4 aug	-	-	1 cal, pc, Q	vf-m	80 low an	-	1	-	-	-	-	m-s	3	10	-	2 ep
7* 130387	A2	2,510 Ms	30	m-vf	20 an-olg	-	4 aug	1	5	-	vf-m	50 pc	-	5	-	1	3	-	70	-	-	-	-
8* 141087	A3	2,875 Syn	5	m-f	5 lab	-	-	-	-	-	vf-m	35 and-olg	3	20	-	15	-	s-m	10	5	-	x ep	
9* 141087	A3	2,773 Syn	5	c-f	x pc	-	5 aug	-	-	x bi, cal, Q	f-r	10	10	3	7	bi	-	m-s	15	5	-	x ep, Z	
10 141087	B3	2,745 Syn	5	c-f	x pc	-	-	-	-	-	f-r	50 lab-olg	3	20	-	5	-	m-s	10	5	-	x cal, ch, Q, sp	
11* 131887	B3	2,768 Ms	5	f-m	5 pc	-	-	-	-	-	f-r	50 lab-olg	3	20	-	5	-	m-s	22	5	-	-	
12* 130287	B3	2,768 Ms	5	f-m	5 pc	-	-	-	-	-	f-r	50 lab-olg	3	20	-	8	-	m-s	22	5	-	-	
13* 130287	B3	2,768 Ms	5	f-m	5 pc	-	-	-	-	-	f-r	47 lab-olg	3	20	-	8	-	m-s	10	5	-	x op, pc	
14* 130287	B3	2,768 Ms	5	f-m	5 pc	-	-	-	-	-	f-r	45 olg	-	x 25	-	15	x ap, bl	s	x 2	8	1	-	
15 150827	B5	2,590 Syn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Skidgate Channel Area																							
16 20287	R1	2,780 Ms	9	f-m	3 olg	-	-	-	-	1 bi, Q, mus	rc-cc	10 pc	40	40	-	-	-	x tour	w	1	-	x mus, op	
17* 20287	R1	2,654 Ku	35	m-vf	30 olg	KF	5	-	-	-	rc-cc	35 pc	20	-	-	-	-	s-m	10	3	1	z	
18 20287	A2	2,837 Hd	-	-	-	-	-	-	-	x cal, op	m-f	40 and-olg	x 10	-	-	-	-	m-s	20	15	5	x zol	
19 1711a7	A2	2,720 Hd	-	-	-	-	-	-	-	-	f	50 and	-	10	-	8	x ap, +1	m-s	10	3	1	-	
20 1707a7	A3	2,819 La	8	m-f	8 lab-olg	-	10 aug	-	-	-	vf-m	55 olg	-	5	30	-	1	bi	m-s	10	5	-	2 ch, Q, cal
21 180887	B3	2,745 Yk	35	m-f	25 lab-olg	-	-	-	-	x ch, Q	vf-m	30 lab-olg	5	-	-	-	-	m-s	22	5	-	-	
22 21087	B2	2,801 Ms	25	#m-f	15 lab-and	-	-	-	-	x ch, bi, Q	vf-m	35 and-olg	x 20	-	-	8	-	m-s	22	5	-	2 ch, sp, Q	
23 170887	B3	2,767 Ms	3	m-f	3 pc	-	-	-	-	-	vf-m	40 lab-olg	x 20	-	-	8	-	m-s	11	-	3	5 x Z	
Cumshewa - Selwyn Inlet Area																							
23 1a67	R1	2,780 Ms	6	f-m	5 olg	-	-	-	-	1 ch, ep, op	cc-cc	F	x	-	-	x zir, ep	85	-	-	x	ep, ch		
25* 200687	R1	2,617 Ku	15	m-f	15 olg	-	-	-	-	-	rc-cc	5	10	-	-	-	s-m	5	10	-	5 Z		
26 200687	R1	2,740 Ms	20	f-m	15 olg	-	-	-	-	-	rc-cc	15 cal	-	-	-	-	-	m-s	10	3	1	x ser, clay	
27 131207	A1	2,679 Ms	15	f-m	10 olg	-	-	-	-	x ch, cal, sp	rc-cc	15 low an	25	-	-	-	-	m-s	10	3	1	M, Q, cal	
28* 092087	A1	2,683 Post	4	f-m	9 pc	-	-	-	-	-	rc-cc	60 pc	-	-	-	-	-	m-s	10	5	-	-	
29 230687	A1	2,728 Yk	19	f-m	10 olg	x	5 aug	-	-	1 ch, cal	vf-m	50 low an	-	5	-	-	-	m-s	15	5	-	x ser, Q	
30 20287	A1	2,676 Hd	11	f-m	10 olg	-	-	-	-	1 ch, cal	vf-m	25 pc	-	7	x ep	-	-	m-s	15	5	-	1 ch, cal, sp	
31* 191087	A1	2,661 Post	42	f-m	25 olg	-	-	-	-	1 ch, cal, op, sp	vf-m	60 lab-olg	-	-	-	-	-	m-s	25	5	-	2 cal	
32 191087	A2	2,719 Ms	3	c-m	3 and	-	-	-	-	-	vf-m	40 low an	-	-	-	-	-	m-s	15	5	-	x cal, Q	
33 20287	A2	2,748 Yk	-	-	-	-	-	-	-	-	vf-m	35 olg	-	1	ep	-	-	m-s	15	5	-	-	
34 2307a7	A2	2,732 Ku	-	-	-	-	-	-	-	-	vf-m	60 olg	-	-	-	-	-	m-s	10	5	-	2 Q, cal	
35 220687	A2	2,755 Ku	-	-	-	-	-	-	-	-	vf-m	60 low an	-	3	3	-	-	m-s	10	5	-	2 Q, cal, Q	
36* 240387	A2	2,762 Hd	12	m-f	3 pc	-	3 aug	-	-	1 cal, lab	vf-m	60 low an	-	3	3	-	-	m-s	10	5	-	2 Q, ep, cal	
37 090687	A3	2,804 Ku	-	-	-	-	-	-	-	-	vf-m	40 low an	-	20	-	10	x ap	m-s	15	5	-	1 ch, cal, Q	
38 241387	A3	2,759 Ms	-	-	-	-	-	-	-	-	vf-m	50 lab-olg	x 25	-	6	x ap	-	m-s	15	5	-	Q, Z	
39* 190187	A3	2,827 Yk	18	m-f	5 by-olg	-	-	-	-	18 ch													