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TABLE 1. RAPID ROCK CHEMICAL ANALYSES AND CIPW NORMS OF SELECTED VOLCANIC AND PLUTONIC ROCK SAMPLES

[Sample locations are shown on map as ■. Analyses by J. Budlong, G. Botts, P. Elmore, G. Chloe, J. Kelsey, L. Artis, R. Smith, J. Glenn, and W. Skinner]

Map Symbol	% Fy	Kv			Kg			Kn	Kb	TKby	Tvr	Tr	Qs	
Field No.		66ANN 225a	69ACV 50b	66ANN 215	69ACV 102	70ACV 125b	70ACV 72a	70ASPA 17a	70ACV 208b	66ANN 241	69ACV 67	71ACV 275b	70ASPA 184a	66ANN 242	69ACV 164	70ASPA 58b	66ANN 248	66ANN 174	66ASP 173
Map No.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Lat. N.		63°21'	63°25'	63°47'	63°31'	63°15'	63°17'	63°57'	63°54'	63°51'	63°20'	63°16'	63°06'	63°30'	63°30'	63°25'	63°24'	63°40'	63°39'
Long. W.		170°32'	171°15'	171°41'	171°14'	169°43'	169°18'	169°39'	169°48'	169°51'	171°13'	170°12'	169°58'	170°29'	170°52'	169°53'	170°42'	170°40'	170°38'
SiO2		50.9	57.8	72.0	63.1	67.1	73.3	69.4	72.1	61.3	53.0	54.4	60.2	68.0	68.4	67.2	76.5	44.5	48.2
Al2O3		15.3	14.9	15.4	17.6	16.2	14.7	16.4	15.1	17.1	21.0	23.1	16.6	13.2	17.4	16.9	12.4	14.1	14.4
Fe2O3		5.4	2.6	1.0	1.1	1.9	.60	.70	1.1	1.4	1.4	1.2	2.4	2.4	2.4	3.1	1.1	1.9	2.1
FeO		9.8	4.0	1.2	2.2	1.4	1.0	1.0	1.9	.98	5.3	4.3	.76	3.0	.94	5.5	.44	.61	9.9
MgO		5.4	4.0	.57	.74	1.0	.32	.83	.45	1.6	2.1	.09	2.5	.34	2.3	.54	.45	10.7	9.4
CaO		7.3	6.0	1.8	2.0	2.6	1.1	2.7	1.4	1.5	7.4	2.2	6.4	.92	4.7	3.0	1.0	9.2	8.8
Na2O		2.8	3.1	4.0	4.1	3.6	3.0	4.1	4.0	3.4	3.5	6.4	5.0	3.4	3.9	2.0	2.0	1.9	1.9
K2O		1.1	1.8	3.7	3.7	3.7	4.2	3.9	3.5	6.1	3.3	9.1	3.4	6.9	1.1	4.3	4.8	1.0	1.0
H2O+		3.0	1.5	.78	1.3	.73	.64	.64	.75	.84	1.7	1.2	1.9	1.1	1.6	.92	1.3	.57	.75
H2O-		.51	.24	.16	.43	.25	.26	.13	.11	.16	.09	.14	.49	.68	2.9	.38	1.0	.18	.26
TiO2		1.1	1.2	.26	.53	.61	.23	.52	.34	.45	1.1	.23	.78	.63	2.7	.51	.17	2.4	2.2
P2O5		.10	.25	.12	.18	.22	.07	.16	.11	.24	.76	.02	.27	.06	.55	.18	.02	.58	.42
MnO		.18	.16	.09	.11	.09	.06	.08	.08	.14	.11	.11	.14	.18	.18	.07	.01	.15	.15
CO2		.12	.01	.04	1.0	.02	.06	.02	.06	.02	.10	.10	.09	.01	.08	.04	.01	.05	.05
Cl		-	-	-	-	-	-	-	-	-	.13	-	-	-	-	-	-	-	-
S		-	-	-	-	-	-	-	-	-	.32	-	-	-	-	-	-	-	-
F		-	-	-	-	-	-	-	-	-	.09	-	-	-	-	-	-	-	-
Sum		99	100	100	100	99	100	100	100	100	101	99	99	100	100	100	100	100	100
CIPW norms (weight percent)																			
Q		2.8	13.0	26.8	14.2	25.8	33.3	26.8	31.7	7.1	1.2	-	9.3	20.5	5.5	24.5	45.9	-	-
C		-	-	-	1.9	3.8	2.1	3.5	2.0	2.2	-	-	-	3.2	1.8	-	-	-	-
or		6.6	10.7	21.7	21.8	21.8	24.8	23.0	20.6	36.2	19.5	54.3	21.3	39.5	6.7	25.5	28.5	11.8	5.9
ab		24.1	26.4	33.8	34.8	30.7	26.4	34.6	33.8	28.9	29.6	6.5	35.5	41.3	29.8	12.5	17.0	8.5	27.9
an		26.3	21.6	8.0	2.4	11.4	4.4	12.2	6.8	13.4	31.1	6.4	15.8	-	20.0	1.7	.01	22.5	22.1
ne		-	-	-	-	-	-	-	-	-	-	17.0	-	-	-	-	-	12.8	.04
ac		-	-	-	-	-	-	-	-	-	-	-	-	1.5	-	-	-	-	-
wo		3.8	2.8	-	-	-	-	-	-	.56	-	1.5	1.6	.48	1.8	-	-	11.0	-
en		13.7	10.0	1.4	1.8	2.5	.80	2.1	1.1	4.0	5.2	.21	6.3	.86	5.7	1.3	1.1	7.3	5.0
fs		15.4	7.2	.95	2.5	.28	1.1	2.1	.29	4.2	5.0	.23	2.8	2.9	.34	1.2	2.9	2.4	12.9
mt		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.6	12.9
il		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.6	4.2
hm		3.1	3.8	1.4	1.4	2.8	.87	1.0	1.4	3.0	2.3	1.8	2.3	2.3	4.1	2.9	1.6	4.2	3.1
ap		.28	.60	.26	.43	.53	.17	.38	.26	.57	1.8	.05	1.4	.07	-	.05	-	-	-
cc		.28	.02	.09	2.3	.05	.14	.05	.14	.05	.23	.14	.22	.46	.02	.40	.02	-	-
Total		97.43	98.42	99.18	98.63	99.26	99.08	99.42	99.34	99.18	98.30	98.88	98.08	97.88	98.26	99.06	98.53	99.40	99.34
Salic		39.80	71.70	94.40	89.00	92.00	95.60	92.70	93.20	86.20	81.67	94.40	81.90	91.30	72.00	93.20	98.40	68.60	59.94
Femic		37.83	26.72	4.78	9.43	7.24	3.48	6.72	6.08	12.00	16.63	6.48	14.18	6.58	26.26	5.86	3.08	30.80	41.40

1 Gabbro
2 Andesitic crystal tuff
3 Biotite quartz monzonite
4 Hornblende quartz monzonite
5 Porphyritic hornblende quartz monzonite
6 Biotite quartz monzonite
7 Biotite granodiorite
8 Biotite quartz monzonite
9 Monzonite-syenite
10 Olivine-hornblende syenodiorite
11 Nepheline syenite
12 Andesite
13 Rhyolite
14 Basalt
15 Ignimbrite welded tuff
16 Rhyolite
17 Basalt (basanite)
18 Basalt (alkali olivine)

TABLE 2. POTASSIUM-ARGON AGE DETERMINATIONS

[Sample locations are shown on map as ▲]. ^{40}K decay constants: $\lambda_e = 0.581 \times 10^{-10}$ yr^{-1}; $\lambda_\beta = 4.962 \times 10^{-10}$ yr^{-1}.
Abundance ratio: $^{40}K/K = 1.167 \times 10^{-4}$ atom percent. Potassium analyses by Lois Schlocker; argon analysis and age calculations by J. Von Essen, Joan Engels, R. Berry, R. Mysse, and D. Rowe.

No.	Field No.	Latitude and Longitude	Mineral or whole rock	Map symbol	K_2O (percent)	^{40}Rad (moles/gm)	$^{40}Rad/^{40}K_{total}$	Calculated Age (millions of years)
1	71ASV136A	63°28' N. 170°48' W.	Basalt	Qb	0.799 .800 .801 .804 avg. .801	3.759×10^{-13}	0.05	0.238 ± 0.132
2	66ANN136B	63°36' N.; 170°33' W.	Basalt	Qb	0.777 .780 .798 .801 avg. .794	4.166×10^{-13}	0.16	0.364 ± 0.060
3	66ANN238A	63°35' N.; 170°37' W.	Basalt	Qb	1.002 1.023 0.980 1.020 avg. 1.010	9.510×10^{-13}	0.24	0.454 ± 0.183
4	66ANV217B	63°26' N.; 170°31' W.	Basalt	Qb	0.704 .708 .709 .703 avg. .706	1.488×10^{-12}	0.19	1.66 ± 0.13
5	70ASP47A	63°26' N.; 170°04' W.	Biotite	Tr	7.93	4.534×10^{-10}	0.41	39.3 ± 1.0
6	66ASP42A	63°30' N.; 170°55' W.	Hornblende	Tvr	0.955 .950 avg. .972	8.837×10^{-11}	0.56	52.1 ± 1.8
7	66ASP42	63°30' N.; 170°55' W.	Sanidine	Tvr	6.24 6.01 avg. 6.245	5.864×10^{-10}	0.92	64.4 ± 1.9
8	69ACV163B	63°30' N.; 170°52' W.	Trachyte	Tvr	5.73 5.73 5.71 5.77 avg. 5.74	5.367×10^{-10}	0.79	64.0 ± 2.0
9	69ASP419B	63°27' N.; 171°32' W.	Biotite	Kg	7.94 8.01 avg. 7.98	1.110×10^{-9}	0.47	93.5 ± 3.0
10	70ACV162	63°59' N.; 169°35' W.	Biotite	Kg	8.17	1.257×10^{-9}	0.87	104 ± 3.0
11	66ANN245	63°11' N.; 168°59' W.	Hornblende	Kg	1.48 1.47 avg. 1.475	2.277×10^{-10}	0.90	114 ± 3.1
12	66ANN113	63°47' N.; 171°41' W.	Biotite	Kg	4.77 4.72 avg. 4.745	7.606×10^{-10}	0.95	110 ± 3.2
13	69APA187B	63°23' N.; 171°17' W.	Biotite	Kv	5.96 5.98 avg. 5.97	6.009×10^{-10}	0.76	90.9 ± 3.0
14	70APA13	63°28' N.; 171°31' W.	Hornblende	½ Fy	0.895 .910 avg. .902	3.555×10^{-10}	0.91	221 ± 7
15	69APA229A	63°34' N.; 171°34' W.	Hornblende	½ Fy	0.899 .885 avg. .892	3.548×10^{-10}	0.87	244 ± 7

BERING SEA
Gambell
Northwest Cape
Kookoolik Mtn
Sevuokuk Mtn
Kookoolik Bay
Nuvagapak Mtn
Kuk Mtn
Kingiktalik Mtn
Kingiktalik Bay
Kingiktalik Lagoon
Kingiktalik Camp
Kingiktalik Mtns
Kingiktalik Ridge
Kingiktalik Pt
Kingiktalik Creek