

Qtz Veins
10

Tert Dykes

Al ₂ O ₃	1.2	17.15
Ba	0.01	.06
CaO	0.05	4.03
Fe ₂ O ₃	1.03	11.01
K ₂ O	0.26	1.21
MgO	0.28	4.79
MnO ₂	0.16	0.39
Na ₂ O	0.05	4.8
P ₂ O ₅	0.01	0.7
SiO ₂	92.87	48.8
TiO ₂	0.05	2.8
S	0.03	0.51

of anal

3

↑
may be
swartz or
v. silice
intrusives

7

2
fresh intrusive dyke
diff from others
prob reworked
tertiary ~~dykes~~ known
to occur on
property

change 1, alt'n

⇒ 4 alt'n

change 5, alt'n

7, alt'n

⇒ 4 alt'n

change 7 → 5

Richter Rock
Geochem 1989

824110

Kobau Group

Nelson Plutonic Rocks

	Quartzite 1	Phyllite 2	Marble 3	Granodiorite 5	Diorite 6	Monzonite 7	Gabbro 8
Al ₂ O ₃	14.26	15.38	3.61	16.40	16.21 14.98	16.46	14.71
Ba	0.06	0.17	0.005 0.01	0.10	0.09 0.010	0.11	0.05
CaO	3.40	8.65	21.63	3.42	3.55 2.420	6.43	9.64
Fe ₂ O ₃	5.27	11.55	10.53	4.82	4.73	5.85	4.82
K ₂ O	1.86	1.20	0.01	2.13	2.75	2.63	2.68
MgO	1.82	4.83	11.73	1.70	1.69	2.83	1.76
MnO ₂	0.16	0.18	2.22	0.13	0.13	0.16	0.19
Na ₂ O	3.56	2.87	0.52	3.53	3.35	3.91	3.19
P ₂ O ₅	0.08	0.32	0.47	0.09	0.09	0.17	0.12
SiO ₂	65.07	48.58	19.79	63.20	62.82	55.95	61.33
TiO ₂	0.50	2.22	0.14	0.41	0.42	0.58	0.48
S	0.12	0.01	1.17	0.06	0.06	0.22	0.10
TOTAL	96.16	95.96	71.83	96.59	95.30	94.88	85.97
# of samples	6	3	3	12	18	19	15

↑
high TiO₂
distinguishing from
gabbros
lower MgO
higher Ca
& FeO contents

high CaO
low SiO₂
very
distinct

don't try to
distinguish

check
total
low

↑
hard to tell chemically
↑