

Nels. Plut. Suite

2a	Granodiorite	5	2 undiff intrus.	4
2b	Diorite	6		
2c	Monzonite	7		
2d	Gabbro	8		

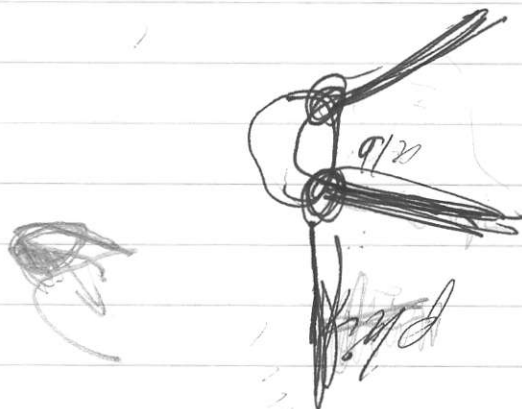
Kobau Group

1a	Quartzite			1
1b	Phyllite			2
1c	Calcareous phyllite			
1d	Marble			3

Alt'n	Na albilized	2	
	Silicified	1	
	carb, clay	3	
	gossanous, silic	4	
	chloritic	5	
	pyritic, hornfelsed	6	

9 - unknown

10 = qtz vein
11 = Tert dykes - ???



Notes

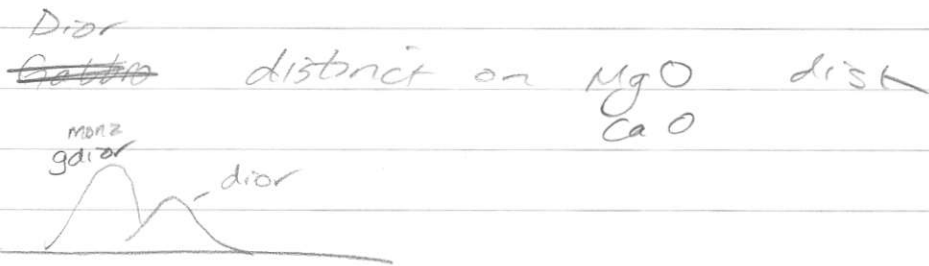
Granod ^{chem} similar to Qtzites - tell by text in field
- chem diffs are \rightarrow Al_2O_3 , K_2O
 \leftarrow Fe_2O_3 , SiO_2
in granodior.

- subtle though
- can tell ~~at~~ hosts from alt'd equivs of the 2 because so similar

Granod - Dior - Monz



normal SiO_2 distrib
 \Rightarrow grad
low SiO_2 ~~monz~~ dior
med ~~Dior~~ monz
Hig gdior



gdior - monz virt indisting, only slight variat
in SiO_2 but avg SiO_2 within 1 sd. see plots
CaO

o don't try to make this
distinction

No diff between
plots of alt'd Gdior & Dior
(SiO_2 CaO TiO_2)

∴ Use alt'd Intrusive
which includes
1 (Kobau Qtzite)
5 Granodiorite
6 Dior
7 Monz

∴ Rocks are
1, 2, 3, 5, 6, 8, 10, 11
Qtzite Phy Mark Grand Dior Gab Qtzite + dyke

alt'd are :

2 alt'd
4 alt'd
8 alt'd

Lithos - # of samples, total listing. ~~Appendix~~
- where from
- # of rock types, avg comp in table -

Described below

Kobau Group

Quartzites Phyllites Marble

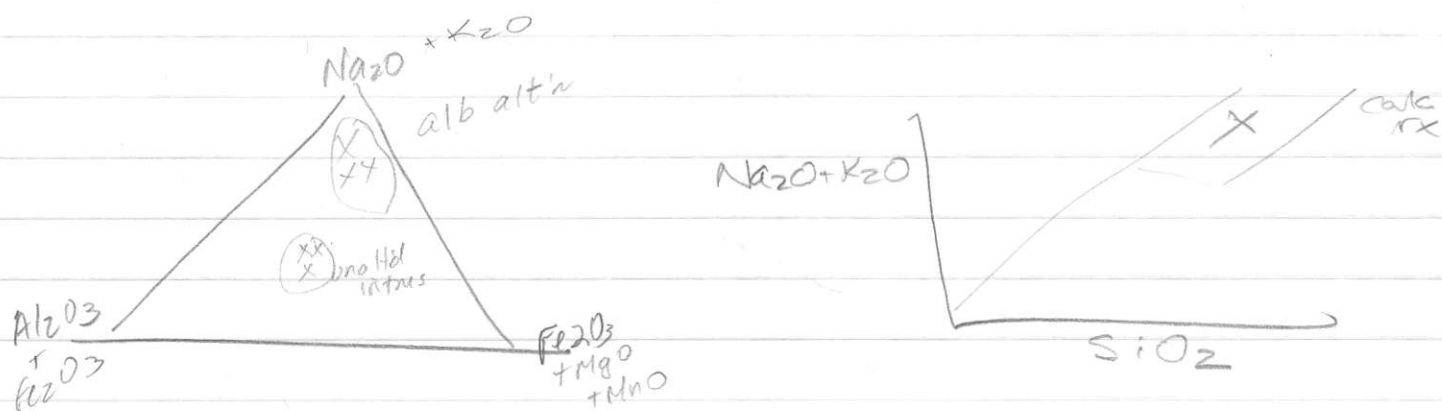
Nelson Plutonic Suite

Granodior Dior Gabbro

Also recog qtz veins (may be metasweats,
or intense silice ~~with~~ country
or rather than true veins)

Also Tertiary dykes.

do typical albite alt'n comp



-thin sect study \Rightarrow fine grained aggregate of albite & Kspar ; minor biotite, py, lim.

albite bodies may be several sq km in size, sev hundred m in depth

- occupy tops of granite plutons
- zones commonly accomp by qtz veins
- sheet like, lenticular pipe shaped or irreg bodies

occurs by alt'n of igneous bodies by their own fluids \Rightarrow autometasonatism

albite alt'n typical of central parts of less intense sub-economic porphyry systems.
- also related to tin deposits

chl ep arb
grr py ser
27. py

propy
phyll



goss / goss

albit
rzn

Pluton
goss

contry

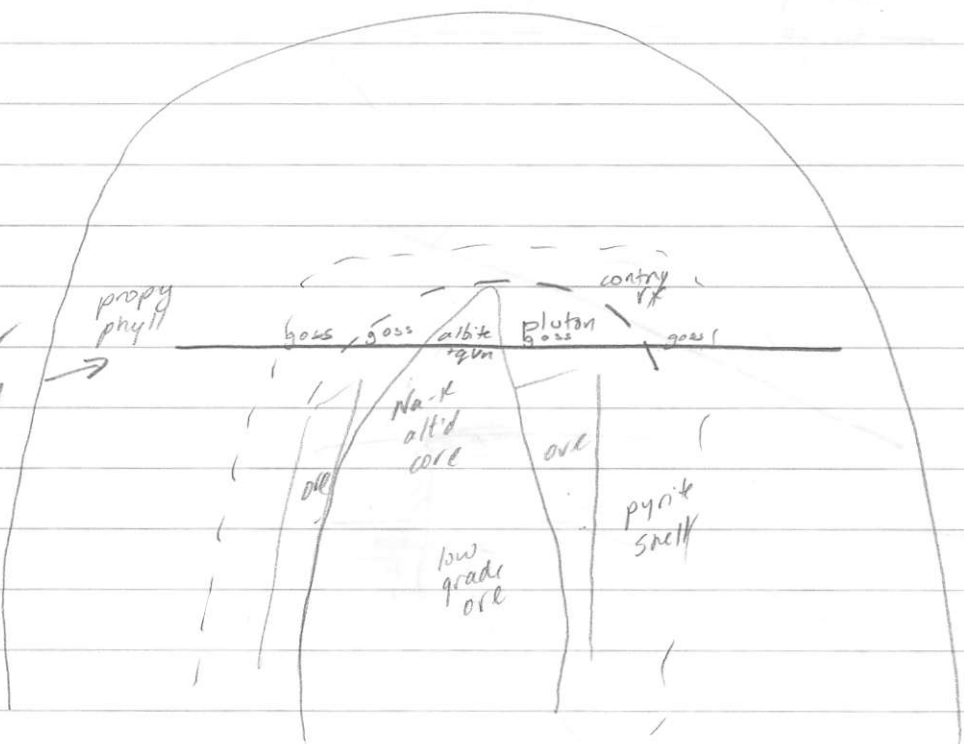
goss

Na-K
alt'd
ore

ore

pyrit
Snell

low
grade
ore



- plots of Qtzite vs Granodior
 Phyllite vs gabbro

- plots of alteration

4
 2
 8

} different ??

pk > Ba
 < S

In rept -

- Gdior, Dior cant disting when altered

- types of alt'n recognized

Silicification } all
 Albitization } intrus

carb - clay } intrus or phyllites
 gossan (with ^{may have} ~~accomps~~ silic) } intrus
 and albitiz

chlorite } 5 } only
 pyritiz, hornfelsing } } phyllites

2 1
 8 1

- not enough data to tell if
silic versions of phyllites
diff from silic gabbros

- maybe Ba - S signature
comes through
