CAMP AQUARIUS - AREA #2

674080

MASSIVE, FINE GRAINED, QTZ.-FELDSPAR DIKES FROM SEVERAL INCHES TO SEVERAL HUNDRED FEET THICK

pink

QUARTZ MONZONITE, MASSIVE, ~~PORPHYRITIC~~ COARSE - MED. GRAINED

GRANODIORITE, COARSE GRAINED
(monzonite)

ULTRA BASIC OR VOLCANIC, DIGESTED PARTLY BY BOTH INTRUSIONS AND CUT BY DIKES OF THE QUARTZ MONZONITE AND LATER DIKES - ONLY XENOLITHS REPRESENT ORIGINAL COMPOSITION AS IT HAS BEEN METASOMATIZED

MAJOR JOINTING DIRECTIONS

CAMP AQUARIUS - AREA #2

Red - Pink f-m-g qtz monz

Purple - fg qtz feld dykes

Sample nos.

TJ-32 - ep, mal. JF-2 - wh ✓

-34 ✓ qm

-35 ✓

46 ✓

47 ✓

white { 48 (3) - sphene

49 - mag

50 - hb syen (qtz?)

51 ✓

53 ✓

54 - hb syen

56 - syen. (hb)

59 ✓

TJ-32 to

HOG #1
R.A. SAMUELSON
R. WARES
JULY 31 1970
N. EASTERLY
C.P.
TJ-58
TJ-59
TJ-60
TJ-61
TJ-40
TJ-41
TJ-42
TJ-39
TJ-38
TJ-37
TJ-36
TJ-35
TJ-32
TJ-33
TJ-34
JF2
TJ-56
TJ-57
TJ-55
TJ-48
TJ-54
TJ-53
TJ-49
TJ-52
TJ-51
TJ-50
TJ-47
TJ-43
TJ-44
TJ-45
TJ-46
W-155
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W-165
W-164
W-163
W-162
W-301
W-300
W-214
W-215
W-216
W-302

2060-103

Area #2

(1)

Dear Cam,

It seems the latest intrusion is probably a quartz monzonite and follows roughly the contours of the air mag. map. It has intruded into a granodiorite with high quartz composition. Along the contact there are many dikes that seem to follow the main jointing directions of the granodiorite. They consist of quartz and feldspar and probably represent a late stage differentiate of the quartz monzonite intrusion. They are concentrated in the contact zone.

The quartz monzonite is generally pink in colour unless weathered extensively, medium grained sized and low in ferromagnesium minerals. It is of uniform composition throughout the marked zone.

The granodiorite is coarse grained with a high percentage of quartz and slightly richer in ferromagnesian minerals - generally hornblende. It has also slightly more magnetite.

There is a zone of volcanics, from before either intrusions, that has been digested and metasomatized by each. Xenoliths occur in these enriched zones representative of the original host composition. It has been cut by one late stage of dikes and by dikes probably associated with the quartz monzonite that is coarse grained, porphyritic and high in K spar and enriched in ferromagnesian minerals (hornblende).

The only copper recognized is a small zone at TJ-32 in slightly brecciated area near a dike. There is malachite in 3 postures but only a few specks of chalcopyrite can be seen.

At outcrop TJ-48, there is a metasomatized zone in the volcanics. There was one speck of malachite. There is also a high percentage of a brown, subvitreous, imbedded disseminated mineral. It can be scratched with a knife and is fairly heavy. I sent a whole lot of samples in. I thought it might be wolframite but you should check it - I can't think of anything else it might be.

The circular mag. high is probably from the granodiorite around the quartz monzonite.

Terry

probably SPHENE
JAG 6/30/71