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DDH Q 73-11 - QUINTANA --- FISH LAKE

	Rock	Fs Altn	Pyr %	Cu Sulph	Epidote	Chlorite	Second. Bio.	Flakey Ser.	Comments
	137 vfy rock volcanic origin?? various to ppytic	orangy yell to gray	vein w str, ppy dis 0.1	vein w gtz py dis 0.15	-	-	-	-	Sheared 162-181 crumbly, clayey zone
	192 Mytic, minor gtz eyes x	yellowish orange to 216 after 237	fr + vein + dis 0.1	fr + vein + dis 0.2	-	loc perv after mafic fr	locally pervasive fr	occasional fr belv.	after 216 - greenish to dk gray (mostly) 'bio zone
LIKE 73-1 PPY	240 alt mafic plag (1-3 mm) PPY	white 1-2 (phenos)	" w gtz-pp 0.2	" 0.15	-	fr loc perv?	fr perv. after matrix	-	mostly med. green after 270
ONE BOX OF CORE MISSING	295 cont. in ppy to 312 t after 367	dk gray to whitish to gray grn	" 0.25	" 0.2	-	after mafic in gray grn zone loc perv fr	fr loc perv	312 - perv gtz-ser actn local	353 - 367 gray grn matrix ppytic rock
(Post-ore) Ppy dyke not split	397 Biotitized or chl. ppy con- tinuous to 422 454	dk gray to gray-grn	Diluted by dyke 0.15	Diluted by dyke 0.1	-	fr loc perv	fr loc perv	minor actn selv. on fr w. pyr-chl	Dyke starts at 422 46 (needles) plag ppy (phenos 35%) matrix gray grn. Fels 40% to core
the ppytic hfls again	Mainly hp middle plag ppx to 490 then Bio Hfls ppx Hfls →	"	" 0.1	" 0.1	-	fr w sulphides	perv in hfls	minor	Dyke is post-ore
crowded ppy ² minter dyke?	560 crowded ppy	dk gray to dk grn to yellowish	vein, fr some dis 0.3	vein, fr some dis 0.2	-	perv. loc	perv. loc.	one veins as serbragen in yell altn	yell zone 510-525 crowded ppy thereafter with hfls/ic zones
ONE BOX MISSING	560 gtz eye plag crowded ppy	wh (yellow- ish) 1-2	fr, vein dis 0.1	fr, vein dis 0.1	-	matrix perv. chl	in inclus- ion	loc zone in inclusion - speckled	inclusions of bi Hfls

gtz eyes to 4mm
plag to 6mm } matrix chl.

Samples: 147, 154, 180, 190, 205, 235, 239, 265, 290, 316, 365, 390 512, 550, 560
585, 590

* Dk colored zone is sim. to ppy in Q 73-1

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RAPID SCAN

samples	Rock	Fs Alt	% Py	Cu Sulph	Epid.	chl	Secnd Bio	Flakey Ser	
693, 697	qtz eye play PPY 600	white to yell white to orange (1-2)	fr + vein 0.4%	fr + veins + dis. 0.35	-	-	Locally pervasive	pockets + seivages assoc with qtz-sulph veins	some spectacular qtz-cpy-py veins
753, 760	qtz eye play PPY give way to hb needle PPY at 757 708	White (1-2)	fr, vein 0.1	fr + vein 0.05	-	same as bio	local in matrix of qtz-pppy	sericitic holes loc	Hb needle ppy med green, hb → chl Minor py on fr no cpy
860, 862	vfg volc cr "hornfels" 875	Biotitized → chloritized → tan (pinkish)	fr, vein 0.1	fr, vein 0.1	-	loc perv.	loc perv.	sericitic slips	Biotite altn early later bleached, chloritized
992, 997	qtz eye play PPY 943	matrix vfg appigrn to gray	mostly fr + veins 0.3	fr + veins 0.3	-	local after magics	altn along fr, loc perv.	qtz pericite envelopes	
	tan to green qtz play ppy phanos to 5mm 15% - 1006	matrix tan to dk grn	mostly fr + veins 0.25	fr + veins 0.2	-	loc perv	-	local on veins	fairly spectacular veins - mostly pyrite tho
	1059		Same	as 943 - 1006					
1190 1196 1200	qtz play PPY - 1202	wh → yell wh (1-2) matrix green	fr + veins 0.25	minor on fr 0.1	-	magics in matrix → chl.	loc perv. - is the zone a xenolith?	local on veins	qtz-py-carbonate- sphalerite vein

316 Bleached and silicified adfac. to
fr + veins - qtz-chl - minor cpy/bx
- chloritic
Rock is same but phenos easy to
see (wh. altn) matrix bio ~~if~~ HfLs
carbonate R.

365 Gray porphyritic, plag 2-4 mm,
25%, aphanitic groundmass shot
thru w/ ^{fg} chl
vfg less sulphide
qtz - mag ± sulphides fr
mostly cpy

390 sericitic zones around vuggy
qtz - pyrite veins ... ^{some och hem in core} away from the
veins heavy concns of py occur
in the altn halo (if that's what
it is).

205 Rock ten altered, like 190
sulphide-rich veinlets cut sulphide-
poor veinlets (which are qtz - feldspar?)

235 qtz - chl - cpy veinlet
Rock is dk gray ppytic (plag 1-2 mm,
25%) matrix hflaed? ^{then} chloritized?

239 qtz - cpy - och hem (bright red)
fr + veinlets (a swarm of ^{parallel} fractures)
Rock same as 190 but phenos almost
obscured by altn.

thicker qtz-rich veinlet cut by
sulphide-rich fracture
→ 265 ppytic bio HfLs.

290 qtz - chl - cpy fr cut by
qtz - chl - och. hem cut by qtz -
och hem fr w/ ^{grn} sericitic halos
Rock is ppytic bio ~~if~~ HfLs

147 Completely altered yell - tan, fract-
ured + veined. The CR is sugary
textured ... altered HfLs?
157 Wispy black zones - second bio + sulphide?
closely fr + wispy altn halos in the
fractures
CR uncertain - tan altn pervasive

180 altn same
veins ~~of~~ pyrite qtz w quartz halos
with sharply gradnl edges some cpy?
Carbonate - young?

190 Tan altn - similar ^{altn} ~~rock~~ but ^{rock} has
20% white feldspar phenos - is a
sort of bx with lg gray brecciated
dyke (?) X cutting (I think).

693 Gypsum veining

Crowded Qtz (4mm, <1%) plag
3-5mm, 45%) ppy - matrix
gray, silic. fg shot thru w. chl mafics.
Qtz - ppy fr

In contact w. (or an inclusion of)
bio. Hfls. some plag xls in Hfls
look like they are from the dyke

697 "massive" sulphide zone veins

cut +
possibly Qtz w. spec - pyrite cores
& zones of pyrite - cpy up to 1"
wide ~~in~~ silic. areas (in these zones
there is a cpy-rich area fringed by
pyritic zones.

550 Rock more ppytic, more alt but
perm. to 365.

plag 2-5mm 40% mafics 3%
matrix gray fg fg → chl
magnetite clots
Qtz vein pyrite core
pyrite - chl fr

585 Contact? CR Hfls has ripped
out pieces in the dyke but the
contact is fuzzy.

Hfls fairly strongly magnetic

590 Qtz - mag fr + veinlets

Fairly coarse plag ppy (plag
3-7 avg 5mm) a few Qtz eyes (4mm)
matrix speckled w. chl. mafic (5%)

481 Elongated, chloritized mafic phenos
(7%) finer mafics in matrix, plag
phenos (2-5mm, 25%) gray fg
matrix. POST-ORE DYKE.

512 Quartz - cpy veins cut by
^{sugg} Qtz - chl - cpy - py w. green alter
halos
CR is bio Hfls?

560 Gypsum veins - rock is heavily
mineralized.

veins - cores Qtz specularite with hem
outer pyrite cpy (some Qtz)

alter halo Qtz ser pyrite (gray)
rimmed by dk fin ser alter zone

992 cont'd

This odd vein seems to cut the
mineral veins

997 Qtz phenos (1% 2-4mm) plagioclase
phenos (10% 4-6mm) matrix fgs, spgy

to fine feldspathic shat thin with
mag + mafic. Fairly magnetic.
"HF15" matrix

1190 Gyp cuts Qtz-py-chl-biot
cut dk gray biot hfls CR.

Fairly magnetic
vein Qtz-cpy^{-py} core Qtz-chl rim

1196 QFP - crowded ppy phenos (5mm)
Qtz vein w. py-gypsum core

1200 all vein mat'l - Qtz sphel-py core w.
py-Qtz - pods of chl rim + sericite.

935 thick (3/8") quartz - py - cpy vein

cut by Qtz-ppycpy fracture.
CR is crowded ^{Q(2%)F} ppy w fgs alt.
to emerald green color locally.
The emerald green zone seems to be
cut by the Qtz vein

942 Gypsum cuts carbonate
Qtz (3% 2-3mm) Feldspar (white 3-5
mm, 30%) matrix bio^{fs} hfls w disse mag.

992 Qtz (4% 2-8 mm) Plagioclase (outlines
rounded, 35% yell-wh) matrix
alt to yell-ten color
cut by Qtz^{±py} fr (young carbonate fr)
and an odd banded chalcidonic
Qtz vein - the banding is along the vein
and transverse so it looks truncated

Quartz phenos (10% 2-3mm)
local 5

plagioclase (white, rounded, 4-6mm, 45%)
matrix fgs shat thin w chl mafic.
veinlet Qtz-chl-magnetite.
Rock has disse. mag. + is fairly
magnetic. Disse. fgs mafic is 5%

760 mafics elongated, chalcidonic
f-mag 10%, plagioclase (2-4mm 16%) phenos
matrix pale gray common pyrite
(17%) Post-ORE DICE

860 vein of quartz (minor mag) cut
+ offset by Qtz-cpy - minor mag (rusty)
and cut by pyrite-Qtz fr
Rock ten extra

862 Black fairly magnetic fgs hfls
fract + veined. Alt to green color
adj to fr. Vein Qtz-chl-mag