(5)

Mitchell-Sulphurets Area, B.C.

803777

Number	Formation	Location	Description
KQ-86-44	"Montgomery" Cu Zone	OR6-1 - 3 large samples ~20-30m apart near ridge crest old EX drillsite	A, B, C & D (selected core spec.) - sheared syenitic? monzonitic? or dark chloritic volcanic zenolith? with many small slickensided surfaces meta. rk @ ~0.4%? Cu as cpy/malach. - branch off main faults
KQ-86-45	andesitic porph. (plag)	OR6-2 - ~40m below peak N. of Brucejack Lake	massive medium green plag. phyric andesite @ ~1-2% rounded lapilli(?) clasts
KQ-86-46	" " "	~150-200m vert. below 86-45	- similar plag. (hb) andesitic porph.
KQ-86-47	" " "	~100-150m " " 86-46 (photo)	- same uniform " " " (~3-5% dark plag. phyric clasts)
KQ-86-48	" " "	~150m " " 86-47	- " similar plag.-hb " porph. @ some py in fracts
KQ-86-49	sl. maroon " " "	~20-30m " " 86-48	- sl. maroon-grey rel. massive plag. phyric andesitic breccia
KQ-86-50	" " "	~200m " " 86-49	- same massive plag. phyric andesite @ ~1% dark lapilli trace
KQ-86-51		~300m " " 86-50 (~300m above stream)	sl. foliated same massive sl. maroon-grey plag. phyric andesite
KQ-86-52	qz-serc.-py schist	~50m lower in stream	intensely altered qz-serc.-py schist
KQ-86-53 (weathered)	rusty " " " cut by white qz veins	OR6-3 knob @ trench in delta ~250m? downstr. near Brucejack L.	rusty leached o/c of qz-serc-py schist cut by ~10%? white bull qz veins
KQ-86-54	Brucejack Lake Peninsula Zone	Trench #14	54 - very siliceous qz-serc.-py schist pos. @ sp? "streaks" 54A - " " " " " qz veins @ zoned greenish honeyjack sp surrounded by dark
KQ-86-55	Hazelton Grp and. vol. br.	OR6-4 - ~6400' elev ridge NE of Mitchell Gl.	monolithic andesitic breccia @ maroon hematitic matrix (photo)
KQ-86-56	maroon lapilli tuff marker	~2 way? OR6-4 to R6-5 ~6600'?	~100m thick massive maroon lapilli tuff with irregular pale green reduced patches
KQ-86-57	dacitic tuff? marker	strati. above (or 20-30m?) above maroon lap. tuff unit	pale buff weathering grey welded dacitic? tuff? @ diss. py (~5m thick unit
KQ-86-58	" "	OR6-5 - 6850' next knob strati. below #86-57	~100m past OR6-5 - typical relatively massive pale grey dacite
KQ-86-59 (fossils)	dark limy fossilif. siltstone	~30m S of OR6-7 ~5780' in saddle at Brucejack L.	dark grey limy fossiliferous siltstone @ poorly preserved "Trigonia-type" pelecypods
KQ-86-60	qz-serc-py schist	~5600' - ~10-15m?? past fault contact @ sed.	~20-30m wide rusty weathering qz-serc-py schist
KQ-86-61	altered andesite?	~5440' top of main rusty zone	serc-py-sil altered and.? @ ~5-10% qz stringers in area
KQ-86-62	sil-py rock	OR6-8 - 5240' - ~200m farther	- gossaned siliceous, pyritic alt. rock
KQ-86-63	" " "	4900' ~150m farther ~150m before str.	(2 spec. ~10m apart - same as 86-62
KQ-86-64	" " "	4700' ~150m " @ str.	same as 86-62 & 63 @ ~5+% pervasive py
~~KQ-86~~			64A - ~20-30m W. of str. similar rock but somewhat cp
KQ-86-65	" " "	~4700 - ~100m farther W	same siliceous py altered rock
KQ-86-66	" " "	~4650' - " "	" " " " "

Number	Formation	Location	Description
Q-86-67	sil-py alt. rk.	~4650' ~100m farther W	same siliceous pyritic altered rock
Q-86-68	" " " "	dump Kruchkowski	Trench - siliceous " alt. rk. @ qz veins
Q-86-69	py alt. and. tuff &	ORB-9 - ~5940' Mitchell-Sulph. ridge ~60m E - ~6020 knob	variably altered & sheared pale to medium green, andesitic, plag.-phyric vol. br. & mas. and. 69A - farthest east - py alt. tuff w. qz-bar gash veins in area 69B - ~10m W - less alt. py green and. 69C - ~10m W - chl, foliated, sl. py. and. br.
Q-86-70	chl alt. (py) and.	~120m N 5560' large o/c in snowfield	70A - foliated sheared and. br. @ minor py 70B - ~30m NE - similar but more py rk. 70C - nr 70B - ~4m-thick alt., sh & br syenite? dyke
Q-86-71	py chl dark grn and.	~70-80m NE downhill ~5500'	rusty py zone in dark green chl and. br & lap. tuff
Q-86-72	" " " " & veins	~100m NE? ~5180'	variably alt. & sheared chl. py mas. & frag. and. 72A - (Newhawk assay sample) ~50cm thick irregular contorted foliated py (~20-50%) zone @ some tetrah, arg? & tr gn? 72B - ~4m E typical dark green chl fol py (3%) andesite wallrock
Q-86-73	dark grey and. br.	~150m E & 50m E of claim post 5180'	mainly foliated, dark grey, monolithic andesite breccia (low py) in area but 73A more py & serc
Q-86-74	v. rusty qz-serc-py schist	ORB-10 - 5250' - ~7300m E - E side of glacier	very rusty py, qz, serc schist - ~30m vert. above toe (qz-mo vein float from higher on hill under ice)
Q-86-75	@ mo-qz veins	~100m farther E 5240'	same qz-serc-py schist but @ scattered qz-py-mo veinlets in area (~10% qz veinlets in area) - sample is MoS₂ ~ for area 75A - more typical low Mo qz-serc-py schist in area 75B - ~50m E "high grade" qz-py-mo veinlets in area
Q-86-76	qz-py-mo veins	~50m E 5250'	selected higher grade qz-py-mo veins in qz-serc-py schist alt. and. 76A - more representative qz-serc-py schist but still above av. Mo 76B - ~30m E 5230' " " " " " " " "
Q-86-77	dark alt. and. schist	~100m E across snow	dark weath. py, alt., andesitic schist (~3-5% diss. py, some qz-bar gash veins, some Mo, & tetrah?)
Q-86-78	py and. br & tuff	~150m SE uphill 5340' Snowfield Au Zone T-17?	and. br. & bedded tuffs @ some Mo along slips & in small veinlets
Q-86-79	same py alt. and. br.	" " " T-358 ORB-11 5380'	same py alt. and. br. @ ~5% diss. py & trace diss. Mo ± gn?
Q-86-80	qz-serc-py schist	~250m NNW downhill 5140' - ~20-30m b/t site D36 365	qz-serc-py schist @ widely dispersed minor diss. Mo (~10% qz stringers in area & very py (+10%))
Q-86-81	d.d. core serc schist	collar 5060' - ~750' deep in hole	py alt serc schist ?
Q-86-82	qz stockwork	~30m N of hole 5050'	qz vein stockwork (~30%) @ py & minor mo 82A ~30m farther " " (~50%) @ higher than av. Mo grade 82B ~30m " (5000') " " (~60%) typical spec.

Number	Formation	Location	Description
KQ-86-83	py-serc. schist	drill core @ ~916' deep - collar 4880'	same py-serc. schist cut by qz veinlets
KQ-86-84	same " " "	~200m N 4560'	" " " " deeply weathered (30%)
KQ-86-85	" " " "	~200m N 4340'	" " " " cut by qz veinlets (steep slope)
KQ-86-86	" " " "	~200m N 3960' 1st trees	" " " " " " " some diss. Mo + cp?
KQ-86-87	py-serc. "	OR6-12 3750' base of slope-bench	py-serc. schist @ qz + py + minor Mo veinlets. (sample sl. above average grade) - ~70m before moraine
KQ-86-88	dark alt. meta. and.?	OR6-13 - 3100' N. side Mitchell Gl.	88A - ~40m E of station; 88B - at station - heterogeneous o/c of dark green alt. py mag cp meta. volcanics?
KQ-86-89	granite porph. + maroon aplite	~100m WNW uphill knob 3260' ~40m? above ice - ~100m E of main str.	89 - typical white + pink potassic granite porph. or qz syenite @ ~½% Cu as cp
			89A - ~20m SW finer grained maroon granitic dyke @ ~0.3-0.4%
zircon sample			89B - chl meta. biot. hornfels (volc.?) ~20x30m block, cut by ~50% qz veinlets + some cp veinlets + diss. @ 0.6% Cu
			large sample 89 + 89A from top of knob for geochronology
KQ-86-90	Mitchell Intrusions trachytoid qz syenite	~3230' - 90A ~10m E of stn.	typical 90A pale trachytoid qz syenite porph. cut by 2cm-wide aplitic maroon granitic dykelet - minor diss. + vein cp + py 0.0x% Cu
		~5m " " "	90B typical " aplitic " dyke (~80cm)
		at stn	90C - good trachytoid syenite porph. cut by white peg. @ @ maroon feld. - minor cp + py dykelets
		" "	90D - trachytoid syen. porph. cut by aplitic granitic dykelets
KQ-86-91	" " " @ cp	~100m W of stream on steep slope ~?m above ice 3180'	average grade same trachytoid qz syen. porph. cut by maroon but good cp over ~10x10m
			91A - "high grade" cp veinlets
		~30-50m SW 91?? →	91B - trachytoid qz syen. porph. cut by late aplitic maroon dykelets, dykes, hairline fractures tbr. matrix and contained dark grn pyritic hornfelsic biot. (?) vdc.? zenoliths py sl > cp (~0.1-0.3% Cu)
KQ-86-92	trach. syen, maroon gr., peg. zenoliths	OR6-14 - small knob 3080' ~100m W, 2100m above ice	92A - same dark hornfelsic vdc. zenoliths (in syen. porph.)
			92B - " trachytoid syen. porph.
			92C - (block) " " " cut 3cm-wide (photo) white peg. @ maroon feld.
			92D - (float) - grey syen. porph. @ white 2ndary, K-spar alt along fractures
			92E - aplitic, maroon granitic 7-8cm wide dykelet cutting trach. sy. porph (photo)
			92F ~ 30m E OR6-14 - typical trach. sy porph @ qz-cp + mag?
			92G - ~3000' elev.; 50m W " - f.g. grey rock (mylonite?) @ diss cp, py ± bn?
			92H - ~30m W of 92G (2940') - " " " "

Number	Formation	Location	Description
Q-86-93	Altered volc. ± intr. rk?	~50m SW 92H -2880'	93A - v. f. g. siliceous alt. grey rock (mylonite) @ ~3-4% diss. py ± minor mo?
		"10m lower 2860'?"	93B - similar to 93A
		"40m lower 2840'?"	93C - typical qz-serc-py schist
		~50m farther 2820'	93D - " " " " " @ qz veinlets @ Mo ± other min?
		largest rock o/c ~40m " 2760'	93E - " " "chl-" " (greenstone) @ scattered qz-cal veinlets
Q-86-94	chl-serc-py schist	~50m farther 2650'	chl-serc-py schist @ some cp (stream 2500' - cover to sty)
Q-86-95	"meta andesite"	~100m further 2500 @ stream OR6-15	rel. massive, med. green, chl.-py alt and. ~3% py
Q-86-96	An Zone qz-serc-py schist	~10m W along str. 2480'	96 - py-qz-serc-schist - cut by contorted (folded?) qz-py-gn veins
		Newhawk (assay sample) ~20m N →	96A - " " " @ py, cp, mo, gn + unknown sulph. ± sulphosalts
		(") ~50m W of 96	96B - (large o/c in str.) " " " " " " "
		Mitchell Cr. ~20m NW-96B	96C - py-qz-serc. " (end of o/c)
Q-86-97	siliceous grey alt. rk	OR6-16-2400' ~100-200m W	~5m low o/c - 1st bushes in str. v. sil, pale grey highly alt. rk minor cp
Q-86-98	West Zone (Bruej. c)	portal site	high grade (1m wide?) qz vein @ py, gn, pyrargyrite ± electrum
Q-86-99	qz-serc-py schist	~200E of " " - Brucejack L.	typical rusty weath. qz-serc-py schist
Q-86-100	chl-serc-schist	Bay W of Discovery Zone	chl-serc schist (alt. and.?) @ variable py alt in area
		~30m NE 100?	100A - in valley - 10m wide qz stringer zone (~30-40%)
		~20m E 100A	100B - edge Peninsula Zone " " " in schist? @ py
Q-86-101	Brucejack Discovery Zone	Discovery Zone Trench #6	101A - ~15cm wide qz vein @ py, gn + sp (atypical high grade)
		" #13	101B - white qz + barite veins @ tetrah.? + py (" ")
Q-86-102	qz veins in qz-serc-py schist	between Discovery + Pen. Zones	- Trench #3 typical of abundant qz veins (10-20%) in qz-serc-py schist
			102A - massive white barite (± qz?) veins
Q-86-103	Brucejack Peninsula Zone	SE end of zone Trench #53	very abundant qz veins in qz-serc-py schist @ gn, sp, tetrah + py (~typical of highest grade in area)
Q-86-104	" "	Trench #20	typical of qz veins (largely barren??) in qz-serc-py schist
Q-86-105	" "	" #54	reasonable " of "-bar" (minor "exotics"?) " " " " "
			105A - sl. higher grade (?) (than av.) @ visible gn
Q-86-106	" "	" #1B	high grade gn, sp, tetrah + py - bearing qz veinlets sp is zoning @ dark rims (~1cm dia) around sl. green honeyjack
Q-86-107	qz-serc-py schist	~100m W? of 106?	typical v. rusty-weath. qz-serc-py schist (@ base of hill)
Q-86-108	plag-hb porph. dyke	o/c just E of bridge E of portal camp	relatively massive altered, unfoliated med. green (?) plag.-hb. porph. dyke?
Q-86-109	fol. qz-serc-py and. volc. br.	S. side Mitchell Gl. OR6-17, 3430' - large o/c base of ice falls	typical qz-serc-py schist after bx and
Q-86-110	qz-serc-py schist (Mo)	~125m W (50m W. of str.) 3430'	same qz-serc-py schist
			110A - higher grade spec. @ some mo in qz stringers + on smears
Q-86-111	" " " (Mo)	~150m W (3380') ~50m v. above ice	same qz-serc-py schist @ erractic Mo
Q-86-112	" " " (Mo)	~250m W (3200') ~200m NW OR6-12(?) ~20m above ice	same qz-serc-py schist
			112A - higher than av. grade - Mo in fix qz stringers
			112B - sl. folded (photo) white bull qz veins @ greenish sp, py + cp in same schist

Number	Formation	Location	Description
112(cont)		~100m W of 112A+B	112C-(3200') same qz-serc-py schist
KQ-86-112	siliceous-serc-py schist	OR6-18-3140' @ ice ("nose" of hardok)	- " " " " " but more siliceous ~15-20% irregular qz veinlets @ minor Mo (~0.02-0.03%)
			112E-typical of higher grade qz-mo-py veins in area (broken?)
		~100m W 112E	112F- " qz-serc-py schist @ only ~5-15% qz veins (and)
		at ice 3080' ~100m W 112F	112G-(embayment ice) typical qz-serc-chl-py schist
KQ-86-113	qz-py-serc(chl.) schist cp+tetrah.?	@ str. 3000' large o/c under ice	qz-py-serc(chl) schist @ ~30-35% qz stringers some @ cp+tetrah.? (Newhawk Assay #1) (113B, 113A)
			113A-typical of 2-2cm-wide irregular qz, py, cp, tetrah. veins
			113B-~10m W 113A typical of qz-py veins @ minor Mo
		~40m W 113B	113C-abundant qz veins (40-50%) @ much py + minor mo + cp
		~70-80m W 113C	113D-more typical sl. schistose qz-serc-chl-py and. @ ~5-10% qz veinlets
KQ-86-114	altered andesite	OR6-19-3080' (nr 532) ~20-30m above ice on ledge o/c	typical pale green serc-chl-py alt., sl schistose and. cut by ~5-10% deformed qz veinlets @ py + minor cp + mo
		~50m SW	114A-same as 114 (photo contorted veins)
KQ-86-115	green chl-serc-py schist (and.)	~200m W-100m S of ice 2680'	typical of med-green chl.-serc-py schist (meta. and.?) @ minor cp - ~5-10% qz veinlets + ~3-4% py
		~100m N of ice 2550'	115A-same as 115
		~100m W of 115A 2510'	115B- " " 115+115A @ ~20-30% qz veinlets some magnetite py + ~0.3% cp
		same area as 115B	115C-more sericitic parts of o/c @ diss. cp, py + tetrah.? (Newhawk Assay #2)
		~30m W 115C	115D-same as 115, 115A + 115B?
KQ-86-116	altered and.?	~100m W of 115D 2420' ~75m SE OR6-15 (i.e. 86-95)	typical med. green serc-chl-py and.? @ ~15-20% qz-carb veins
KQ-86-117	" "	~150m + W of ice + 150m E 86-96 (photo)	massive chl. py (~4-5%) alt. rk @ ~15% qz veinlets ~0.5% tetrah.?
		~150m SW 117 + 150m SE 96	117A-same " " "dark grn " " " "15-20%" " "
KQ-86-118	qz-serc-py schist	~30m SE of 86-96B (o/c in str. ice)	typical qz-serc-py schist
		~20m SW 118	118A-cp+sp-bearing qz veins in " " " (Newhawk Assay #3)
		2360' ~100m SW of 96B	118B-(on strike @ 96B) typical qz-serc-py schist @ highly contorted 2-20cm py veins
		@ 118 area	118C-typical of high py veins (Newhawk Assay #4)
		~20m SW of 118B+C	118D-~50cm wide qz veins @ 20cm of high grade tetrah., cp, sp, gn + py etc. (Newhawk Assay #5)
		~1½m W of 118D	118E-2m thick min. qz vein (" " #6)
		immed. W of 118E	118F-1m wide min. qz stringer zone (" #7) @ tetrah. cp + py - in qz-serc-py schist

Number	Formation	Location	Description
Q-86-119	alt. plag-hb porph?	⊙R6-20 - 4330' Hanging Gl. Area	highly fractured, drab, med-green, rel. mas alt. rk. (plag-hb porph?) / minor diss. py
Q-86-120	" " " "?	4460' nr. stream bare o/c	intensely altered intrusive rk. @ ~4-5% py
		~4480'? ~50m NE 120m E str	120A - ~7-8cm wide qz-carb. vein @ sp
		~5m E	120B - 10cm wide qz-carb py vein in "crevasse" in rk in melasets. (Newhawk Assay #8)
		~70-80m SSE 120B	120C - typical of siliceous pyritic altered bedded sed. rk
		~4430'? ~30m E of str 120 below	120D - pieces from several qz-cal-bar vein @ py, gn & sp (Newhawk Assay #9)
		few m from 120D	120E - typical of green py altered host rocks
KQ-86-121	veinlets @ ruby silver	4290' ~100m SE 120E	qz-cal-bar veinlets @ py, gn, sp, tetrah? & py rargyrite (Newhawk Assay #10)
		~40m SE 121	121A - same veins @ cockscomb qz (photo)
		~100m E on str from 121	121B - " " " " (Ken Hick's Assay Ag sample)
		~100m S from 121B downhill	121C - similar qz-cal-bar 10cm vein @ gn & cp
		float at 121B	121D - qz-cal-bar? vein @ gn & native Ag (local origin? angular)
KQ-86-122	alt. plag-hb porph?	4020' ~30m E of str ~100m E of moraine ~100m S 121C	pyritic altered plag.-hb porph.?
KQ-86-123	py alt. rk	~250m SE 122 @ str 3930'	typical 10m wide sheared dyke pyritic alt. grey rk in area
KQ-86-124	"Premier type" k-spar porph	~50m SE of 123 3880	grey py alt. porph (plag-hb? @ large wh. k-spar pheno @ qz-carb veins
		~30m SE of 124	124A - typical of rel. mas. altered py host rocks volc.? or sed.?
KQ-86-125	qz-serc-py schist	Kerr Property ⊙R6-22 - grid centre @ 100N, 100E 1634m uphill Spec @ 99+15N 99+60E	typical qz-serc-py schist @ ~3-4% diss. py
KQ-86-126	" " "	99+15N 98+50E 1655m	same " " " " 70-80m up ridge
		~30m NW 126	126A - sl. foliated meta. plag-hb. porph.
KQ-86-127	" " "	~80m NW? of 126 along ridge up	same qz-serc py (chl.??) schist?
		~30m NW of 127 50N 97E 1720m	127A - nr N end "B" zone (immediately E of Trench #13) ~15-20% qz stringers (in schist) @ py & cp
KQ-86-128	grungy altered rk cut by cp-py veinlets	W side "E" zone 1780m	- cp-py veins in grungy hackly fract. alt. rk. - ~10-20m S of high grade trench
			128A - ~1m W of high grade trench 96+35N, 93+90E ~15-20cm-thick rel. mas cp-py (qz) vein
KQ-86-129	sheared fault "vol-sed?" rk	~96N 93E ~1830m??	pale to med. green-grey sheared rk near postulated major fault - mixed volc.-sed. protolith???
KQ-86-130	alt. vol.?	1795m 97+30N 94+30E upper (W) part of Trench #A zone	diss. ±py + cp in alt. vol. rks?? (rain + fog v. heavy) - check spec. for rk. type + see company map

Number	Formation	Location	Description
KQ-86-131	hb porph	1960m 97+25N & 95+55E	hb porph. - approaching diabase
KQ-86-132	"B" Zone	between Trenchs # 8 & 9	py & minor cp in qz veinlets in alt. volc
KQ-86-133	plag-hb porph.	W. of Brucejack West Zone near creek	133 A&B typical drab, grungy metamorphosed px relatively equigranular plag.-hb porph.
KQ-86-134	" " "	~200m S of 133 uphill	A&B. - similar plag.-hb porph. to 133
KQ-86-135	West Zone (Brucejack)	Trench #85	135A - typical py qz veined sil. rk of trench
		" "S end	135B - higher grade veinlets (over ~1m) @ more dark sulphides
KQ-86-136	" " "	Trench #93	"blue rock" - i.e. higher grade than av. " "