671201
Lion Group
93M/16

JULY 7/73

CAMP CHARLIE

CAMP #5

DATE: July 1st to July 6th/73

LOCATION: northeast of Takla Lake, southeast of IKTLAKI Peak.

MAPS: 93 M/16E, northeast corner of map sheet.

AIR PHOTOS: BC 1581 : # 82, 83, 84, 85, 86, 87,

SILT SAMPLES: Y-338 to Y-421 and Y-157 to Y-506 (134 samples)

CLAIMS STAKED: July 6/73 253869M, 253870M, 253871M, 253871M, (LION #1-4) see tracing and below

MINERALIZATION: Several occurrences of chalcocite-Bornite-chalco-Malachite in red tuffaceous conglomerate were seen. These were similar to the conglomerate showings of previous camps — traces of primary sulphides and a little <2% malachite. (JS-73-7-4-(9) (JS-73-7-2-(9)) slight traces of chalco were ~~seen~~ found in light green andesite but in very insignificant amounts. Chalco associated with epidote veins and specularite ~~was~~ found near the contact of the conglomerate with the diorite stocks. (JS-73-7-2-(4), etc) a probable product of slight contact metamorphism. A grid covering the east portion of the diorite stock was put in last summer, but no showings were seen, perhaps it was covered by snow or they were just interested in the magnetic highs that are centered on the stocks.

On July 6th 4 claims were staked to cover a small showing (see attached overlay) + specimens JS-73-7-6-(8), etc,). The showing occurs in the creek canyon ~3 miles northeast of camp. A section of 3-4 feet of fairly consistent veinlets and disseminations of chalco is exposed between green andesites and what appears to be rhyolitic but is probably a bleached, silicified and carbonatized andesite. Small faults and shear zones are important and oxidation of pyrite has given much of the altered rock that doesn't contain copper a thick coating of limonite, fault gouge is common. A gossan zone is exposed on the ridge to the west but is not covered by our claims (JS-73-7-3-(15) + (14)). Similar host rock to that of the copper mineralization contains abundant pyrite further down the creek. (a more detailed account on overlay)

This showing may not be worth registering the claims for, but the area probably deserves a more detailed look at the surrounding rocks.

over →

GEOLOGY: Camp #5 is very similar to camp #4.

(a) Red tuffaceous conglomerate (thick) which is bounded on both sides by lesser clastics ~~and~~, volcanics and pyroclastics. One interesting new development was the occurance of a small dyke (basalt) which trended 270°/60N in the red tuffaceous conglomerate on IKTLAKI peak.

(b) Bi - HBL Diorite stock which has caused slight contact metamorphism in the surrounding sediments.

The only new ~~lithology~~ rock type is the intensely oxidized andesite which is described under the claims.

Charlie (5)

JS 73-7-1-(1) Red conglomerate - small pale green, dark green, white + large red frags some long + angular

1-(4) Lithic wacke - light buff grey grit

1-(5) Basalt dyke - f.g. dark.

1-(7) Porph flow - 1/16" white feldspheno random, dacite? flow.

1-(24) Red tuff - bedded fine grained (very) deep red.

1-(11?) F.g. And. Tuff - black very f.g. dense - suggests f.g basalt.

JS-73-7-2-(1) F.g. Andesite to Andesite Conq + Bx. Similar to 7-1-(11?) - spots cu surrounded by epidote.

2-(4) Epidotized conq. + Specularite

2-(9) Cu conglomerate - hem, chalcocite? malachite

2-(10) Red tuffaceous? conq?

2-10 (11) f.g light green andesite

2-(12) ? andesitic - fine cpy. biotite. May be related to diorite

2-(12) Dark green andesite? fragmental.

2-(13) Dark green to reddish grit.

2-(14) Dark green specularite conglomerate

2-(15) Dark blue green andesite? - minor py.

JS-73-7-2-(6a) Specularite nodules - minor malachite

2-(6b) Small piece banded epidote + specularite

BF-73-7-3 (2) Pale grey green f.g. dense rock - minor cubic py. andesite?

JS-73-7-3-(2) Bi Hbl Diorite - coarse grain blotchy dark + white minor py.

JS 7-3-(3) Hbl Diorite - med gr. fairly fresh.

BF-73-7-3-(6) Pale green andesitic agglomerate? vuggy.

JS-73-7-3 (7) F.g dark andesite - carb str.

-3-8 Med grey green f.g. Epidotized andesite little py

-3-10 Black f.g. porph - ? Small white phenos.

-3-(14) (15) Gossan + py ~~seaming~~

-3-(18) Green black flecked andesite ~~JS 73 7-~~

-73-7-4-(2) Agglomerate Bx. - grey angular frags in fg black matrix

JS - 73-7-4-(4) Red conglomerate + Boxwork

4-(5) Andesite - green fg. carb blebs.

4-(11) Agglomerate ~~Conq.~~ - dark grey - ~~shaty frags~~ black basaltic frags.

4-(13) Andesite - flow struct - green black flecked + epidote banding

4-(15) Andesite - dark green f-m g.

4-(16) (12?) Conglomerate - red + green with py.

4-(17) Andesite - dark grey green - biotite.

4-(18) Andesite - " " " - pyrite.

BF - 73-7-5-(4) Grey brown chert or cherty hornfels.

JS - 73-7-6-(3) Black andesite frag? - bleached borders.

4 ow

7-6-(1) Cpy in vuggy chert.

7-6-(7) Dark green black andesite } unaltered

7-6-(7) - " " }

7-6-(8) Cpy in fractured grey cherty rock + andesite

7-6-(9) Oxidized zone - rusty carbonatized frag.

7-6-(10) Py in brex alt ?? little calcite

CHEMEX LABS LTD.
STREAM SEDIMENTS – WATER

COLLECTORS: B. FRASER
AREA: CAMP 5 – CHARLIE
FIELD MAP:
DATE: JULY 1 /73.

RESULTS PLOTTED BY:
POSTING MAP:
DATE:

ANALYST:
METHOD: (A):
(B):
DATE:

SAMPLE NUMBER	NOTES (SEE FIELD BOOK FOR MORE DETAIL)	SEDIMENT DATA					STREAM DATA						DRY GULLY	SPRING	SEDIMENT RESULTS									WATER RESULTS		
															Field Tests			Lab. Tests								
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity	pH			Cu	HM		Mo	Cu	Pb	Zn					
Y-338			✓	✓	✓	✓			3'	1½'	SL.															
Y-339	POOR SAM.	✓	✓		✓	✓			2'	1'	SL.															
Y-340		✓	✓	✓		✓			2'	2"	M-SL.															
Y-341		✓	✓	✓		✓			5'	5"	M-SL.															
Y-342.		✓	✓	✓		✓			6'	5"	MF															
Y-343			✓	✓					6'	9"	MF.															
Y-344		✓	✓						2'	3"	MF.															
Y-345			✓	✓					7'	4"	M.															
Y-346.		✓	✓	✓		✓			2'	3"	M.															
Y-347		✓	✓	✓					5'	8"	MF															
Y-348		✓	✓	✓					7'	6"	M.															
Y-349.	TRICKLE, SEMI-DRY SILT.	✓	✓	✓		✓			2'	2"	M.															
Y-350		✓	✓	✓					8'	6"	M.															
Y-351		✓	✓			✓			2½'	3"	M.															
Y-352.			✓	✓		✓			6'	7"	M.															
Y-353		✓	✓	✓					8'	10"	M.															
Y-354			✓	✓		✓			9'	10"	M.															
Y-355			✓	✓		✓			3'	2"	M-SL															
Y-356			✓	✓					9'	1'	M.															
Y-357			✓	✓					8'	7"	MF.															
Y-358			✓	✓					8'	8"	M.															
Y-359			✓	✓	✓	✓			12'	1'	M															
Y-360			✓	✓					8'	10"	M.															
Y-361		✓	✓	✓					12'	5"	M															
Y-362		✓	✓	✓					9'	1'	M.															
Y-363			✓	✓		✓			9'	10"	M.															

CHEMEX LABS LTD.
STREAM SEDIMENTS – WATER

COLLECTORS: B. FRASER

AREA: CAMP 5 – CHARLIE.

FIELD MAP:

DATE: JULY 2-3/73

RESULTS PLOTTED BY:

POSTING MAP:

DATE:

ANALYST:

METHOD: (A):

(B):

DATE:

SAMPLE NUMBER	NOTES	SEDIMENT DATA					STREAM DATA						DRY GULLY	SPRING	SEDIMENT RESULTS									WATER RESULTS		
															Field Tests			Lab. Tests								
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity	pH			Cu	HM		Mo	Cu	Pb	Zn					
Y-364		✓	✓	✓					3'	2"	MF															
Y-365			✓	✓	✓				4'	3"	MF.															
Y-366		✓	✓	✓					4'	3"	M.															
Y-367.		✓	✓	✓		✓			2½'	3"	M.															
Y-368			✓	✓					3'	1'	M.															
Y-369		✓	✓	✓.					4'	1'	M.															
Y-370		✓	✓	✓	✓				4'	1'	MF															
Y-371		✓	✓	✓					6'	8"	M.															
Y-372.			✓	✓					6'	1'	M.															
Y-373	BELOW BEAVER DAM.		✓	✓		✓			6'	2'	M-SL.															
Y-374		✓	✓	✓					6'	8"	MF.															
Y-375	NEAR BANK.	✓	✓	✓		✓			6'	10"	MF.															
Y-376	NEAR BANK.		✓	✓	✓	✓			7'	1'	M-SL.															
Y-377			✓	✓		✓			6'	8"	M.															
Y-378			✓	✓					8'	10"	M-SL															
Y-379		✓	✓	✓					6'	6"	MF.															
Y-380.		✓	✓	✓					12'	4"	M.															
Y-381		✓	✓	✓		✓			11'	5"	M.															
Y-382.		✓	✓	✓		✓			5'	10"	MF.															
Y-383			✓	✓					4'	1'	MF															
Y-384.			✓	✓					4'	16"	M.															
Y-385			✓	✓					5'	10"	MF.															
Y-386		✓	✓	✓					4'	6"	M.															
Y-387		✓	✓	✓					7'	1'	MF.															
Y-388	RK. (2) 180' UPSTREAM.	✓	✓	✓					8'	1'	MF.															
Y-389	RK (3) 50' DOWNSTREAM.	✓	✓	✓		✓			2'	3"	M.															
Y-390		✓	✓	✓					9'	1'	M.															
Y-391		✓	✓	✓		✓			10'	1'	M.															
Y-392.		✓	✓	✓					3'	6"	F.															
Y-393		✓	✓	✓					10'	1½'	MF.															

CHEMEX LABS LTD.
STREAM SEDIMENTS – WATER

COLLECTORS: B. FRASER
AREA: Camp 5 – CHARLIE
FIELD MAP:
DATE: JULY 3, 4, 5 /73.

RESULTS PLOTTED BY:
POSTING MAP:
DATE:

ANALYST:
METHOD: (A):
(B):
DATE:

SAMPLE NUMBER	NOTES	SEDIMENT DATA					STREAM DATA						DRY GULLY	SPRING	SEDIMENT RESULTS									WATER RESULTS		
															Field Tests			Lab. Tests								
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity	pH			Cu	HM		Mo	Cu	Pb	Zn					
Y-394		✓	✓	✓		✓			2'	3"	M.															
Y-395		✓	✓	✓					3'	3"	F.															
Y-396		✓	✓	✓					12'	1'	MF.															
Y-397			✓	✓					12'	1½'	M.															
Y-398		✓	✓	✓					6'	3"	MF.															
Y-399		✓	✓	✓					13'	1'	MF.															
Y-400		✓	✓	✓					4'	4"	MF.															
Y-401		✓	✓	✓					4'	4"	MF.															
Y-402		✓	✓	✓					4'	3"	M.															
Y-402.			✓	✓					4'	3"	M-SL.															
Y-403		✓	✓	✓					2½'	5"	M.															
Y-404		✓	✓	✓					2'	6"	MF.															
Y-405		✓	✓	✓	✓	✓			~~1½'~~ 2'	~~3"~~ 6"	~~M.~~ MF.			✓												
Y-406.		✓	✓	✓	✓	✓			1½'	3"	M.			✓												
Y-407	SWAMPY.	✓	✓	✓		✓			4'	1'	M-SL.															
Y-408		✓	✓	✓					3'	5"	MF.															
Y-409		✓	✓	✓		✓			3'	8"	M.															
Y-410		✓	✓	✓					4'	4"	F.															
Y-411		✓	✓	✓		✓			4'	6"	MF.															
Y-412			✓	✓					6'	8"	MF.															
Y-413.		✓	✓			✓			2'	3"	M-SL.															
Y-414		✓	✓	✓					2½'	4"	M.															
Y-415		✓	✓			✓			2'	4"	M.															
Y-416.		✓	✓	✓		✓			2'	2"	M-SL.															
Y-417		✓	✓	✓		✓			2'	2"	M-SL.															
Y-418		✓	✓						14'	10"	M.															
Y-419.	CANYON	✓	✓						14'	1'	F.															
Y-420	"		✓	✓					14'	1'	F.															
Y-421	"		✓	✓					16'	1'	MF.															

CHEMEX LABS LTD.
STREAM SEDIMENTS – WATER

COLLECTORS: J. Shearer
AREA: CAMP # 5
FIELD MAP:
DATE: July 1st – July

RESULTS PLOTTED BY: J. Shearer
POSTING MAP:
DATE:

ANALYST:
METHOD: (A):
(B):
DATE:

SAMPLE NUMBER	NOTES	SEDIMENT DATA					STREAM DATA						DRY GULLY	SPRING	SEDIMENT RESULTS									WATER RESULTS		
															Field Tests			Lab. Tests								
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity	pH			Cu	HM		Mo	Cu	Pb	Zn					
Y-157	Air Photo – 1581-84 5000' from camp	X	X	X				X	2'	8"	M															
Y-158	1000' + 157	X	X	X				X	3'	6"	M															
Y-159	on creek coming down draw.		X	X				X	3'	6"	F															
Y-160	at top of creek	X	X	X		X			10'	1"	S															
Y-161	1000' from burn		X	X				X	3'	6"	M															
Y-162	at burn		X	X				X	3'	6"	M															
Y-163	on big creek Air Photo – 1581-84 500' E of camp	X	X	X				X	4'	8"	F															
Y-164	163 + 1000'	X	X	X				X	3'	8"	F															
Y-165	164 + 1000'	X	X	X				X	3'	8"	F															
Y-166	165 + 1000'	X	X	X				X	3'	8"	F															
Y-167	166 + 1000'	X	X	X				X	3'	10"	F															
Y-168	167 + 1000'	X	X	X				X	3'	12"	F															
Y-169	168 + 1000'	X	X	X				X	4'	10"	F															
Y-170	169 + 1000'	X	X	X				X	3'	8"	F															
Y-171	under snow on E Trib ≈1000' + 170	X	X	X				X	3'	8"	F															
Y-172	up west Trib	X	X	X				X	3'	8"	F															
Y-173	at top from Talus slope Malachite		X	X			—		6"	1"	S															
Y-174	at bottom of talus slope west of camp	X	X	X				X	2'	6"	F															
Y-175	at swamp 1800' at 300° of Y-342	X	X	X				X	4'	10"	M															
Y-176	200' up creek of big swamp	X	X	X				X	5'	12"	M															
Y-177	176 + 1000'	X	X	X				X	6'	12"	M															
Y-178	177 + 1000'	X	X	X				X	6'	12"	M															
Y-179	178 + 1000'	X	X	X				X	6	18"	M-F															
Y-180	179 + 1000'	X	X	X				X	5'	24"	M+F															
Y-181	180 + 1000'	X	X	X				X	5'	24"	M-F															
Y-182	181 + 1000'	X	X	X				X	4	24"	M															
Y-183	1000' above old camp	X	X	X				X	4'	12"	M															
Y-184	at bottom of stair zone	X	X	X				X	3'	24"	F															
Y-185	184 + 1000'	X	X	X				X	4'	18"	F															
Y-186	185 + 1000'	X	X	X				X	4'	18"	F															

CHEMEX LABS LTD.
STREAM SEDIMENTS – WATER

COLLECTORS: J Shearer
AREA: Camp #5
FIELD MAP: Air photos
DATE: July 1st – July 6th/73

RESULTS PLOTTED BY: J Shearer
POSTING MAP: Tracing
DATE: July 6th

ANALYST:
METHOD: (A):
(B):
DATE:

SAMPLE NUMBER	NOTES	SEDIMENT DATA					STREAM DATA						DRY GULLY	SPRING	SEDIMENT RESULTS									WATER RESULTS		
															Field Tests			Lab. Tests								
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity	pH			Cu	HM		Mo	Cu	Pb	Zn					
Y-187	186+1000'	X	X	X				X	4'	18"	F															
Y-188	800' upst from 397 small waterfall and	X	X	X				X	4'	18"	F															
Y-189	small Trb – 1000' up from 344	X	X	X		X		X	1'	6"	S															
Y-190	a few hundred' upst. on main creek	X	X	X				X	8'	2'	F															
Y-191	190+1000' upst	X	X	X				X	8'	2'	F															
Y-192	191+1000' upst	X	X	X				X	6'	2'	M-F															
Y-193	192+1000' upst	X	X	X				X	6'	3'	M															
Y-194	193+1000' upst	X	X	X				X	5'	2'	M															
Y-195	on next creek W.	X	X	X				X	3'	6"	F															
Y-196	195+1000' dnst	X	X	X				X	3'	1'	F															
Y-197	196+1000' dnst canyon	X	X	X				X	4'	4'	F															
Y-198	at Jct 1000+197	X	X	X				X	6'	2'	F															
Y-199	on trb. a	X	X	X				X	3'	1'	F															
Y-200	198+1000' dnst	X	X	X				X	6'	2'	F															
Y-501	Y-200+1000' dnst	X	X	X				X	8'	1'	F															
Y-502	Y-501+1000' dnst	X	X	X				X	6'	18'	F															
Y-503	small organic	X	X	X		X		X	3'	10"	S															
Y-504	on creek bottom slighting organic	X	X	X				X	2½	8"	M-S															
Y-505	504+1000'	X	X	X				X	3'	5"	M															
Y-506	505+1000'	X	X	X		X		X	3'	6'	M															