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(1)

May 31/95

Left town to camp on creek #2. Took in 8 wheel Argo, supplies etc.

June 1/95

(1)

Our objective for today is to try to find a penetrable route from creek #2 to headwater area of Mosquito Creek - one that is traversable with argo. Will also prospect along way. Route chosen will be upstream to the headwaters of #2 creek, then across the top to Mosquito Creek. As we knew, it would be difficult - the tough part getting up #2, above timber line. It's like a jungle of willows. When we broke out at the very top, we stopped shortly to examine Mafic type rocks outcropping on right limit of creek at very top, then moved on, will re-examine later. Arrived at Mosquito creek approx. noon. Decided to stay over as we brought pup tent. Prospected rest of afternoon locally, but found nothing of much interest.

June 2/95

(2)

One minor part of our programme proposal was to check Mosquito for placer platinum, to see if it extends this far south.

(2)

so spent morning panning up and down Creek in afternoon. Although we panned what appeared to be several very small specks of platinum, it certainly isn't like creeks 1, 2, and 3. We seem to be lacking mafics over here, but will do a trip in the morning off to the south of mosquito. I'm not encouraged, as there would be a better placer showing in the Creek, as the ice advance trended from the south. (We later panned better platinum farther down creek)

June 3/95 (3)

Today we prospected down stream and southeasterly of creek. We hope to cover at least a half mile strip paralleling south side of Creek. Made it back to Camp at 4:30 P.M. - nothing of much interest. We did find some mafic type rocks but the dunites appear to be weaker over here, more host rocks of Serpentine, limestone and some marble. Tomorrow will try upstream from camp.

June 4/95 (4)

Tray Meldrum is an excellent helper and knows what we're doing - he was chomping at the bit to get going this morning so set out upstream and Southwesterly.

It's very rugged country. The altitude we're working is still in some timber and very heavy willows. If we could get in the open we may have better luck, but can't see any great distances in any direction. Didn't find much but this area will require a more methodical search, due to the bush. We'll also have to spend some time out of timberline up top and more to the south. As soon as I find some better sample rocks, I'll have to take them in for definite analysis (to determine mafic/ultramafic etc. Left area at 2:00 P.M. - out of grub so have to go back to camp on Creek #2. Going back will take a route straight toward the camp, arrived at 6:00 P.M.

June 5/95 (5)
Rained hard all day - stayed over in camp.

June 6/95 (6)
We're still looking for a traversable Argo. route to the south - going and coming from Mosquito Creek revealed partial routes, but it will be hard to link up due to timber and rugged terrain which is heavily rifted - some rifts are long with an upthrust side or bluff, and could have

To go around.

We still have prospecting south of Mosquito, so decided to backpack over again and get on with it. We left our tent & 1 bedroll each over there so will be able to pack more gear. Didn't waste much time enroute and arrived at noon. The tent had weathred OK, but bedrolls were damp, so hung out to dry. After a lunch we started off to southwest. Clouds look threatening - hope the rain holds off.

Began prospecting awhile when cloud closed in rain poured down. We weathered it out for an hour or so under a well boughed tree, but there was no sign of let-up, so made a run for camp, where we spent balance of day and a very miserable night.

June 17/95 (7)

Sunny this A.M. Looks great. Headed off again after camp chores and breakfast. Fanned out, we covered a strip about $\frac{1}{8}$ mile wide, that bordering area previously covered over to Southeast. Troy is trained enough now that he knows the rocks we're looking for. Our plan is to traverse outward about a mile or so by.

The eighth of a mile wide, move over and cover another $\frac{1}{8}$ mile strip back to camp, eventually working all area to west and up top. Back to camp at 4:00 P.M.

June 8/95

(8)

The same procedure - will compile our results after area is covered.

June 9/95

(9)

Weather good - same procedure. Oere system seems to work good in covering all ground thoroughly. This evening moved camp upstream to accommodate area we're covering.

June 10/95

(10)

Another strip today - by using ~~compass~~ landmarks, trees, ~~etc~~, and flagging, we're able to effectively cover the area & about 2 more days will cover area up to cross-hatched area (land claims)

June 10/95

(11)

Cloudy today, but no rain same procedure. Moved camp again. This evening.

June 12/95

(12)

Same procedure - were up close to Indian land claims area so today completed movement to west. Grub is very low but want to spend 2 more days going deeper south, beyond previously covered ground.

June 13/95

(13)

D's spread out after exiting area already covered, as far as about a mile and a half, further south, then easterly. Returned to camp by 5:00 P.M.

June 14/95

(14)

The same as June 13th, only more easterly or downslope. We're now back in bush and timber. Have decided not to bother with spending more time here - the only area not covered. Lies below the 3000' elevation line and is extremely rough and bushy - it may be an area to check, and may return later, but now were out of grub.

The area we covered yesterday will definitely require more prospecting. As indicated on the bedrock geology map, we ran into the first decent sign of mafic rocks in area. The area in closer to Mosquito Creek seems to contain little in mafics.. more

to local host rocks - serpentine, limestone
some chlorites and marble, minor quartz.

The area encountered yesterday lies about
~~1~~ 1 miles from head of mosquito creek (South) west.
There appears to be one main lobe of mafic
intrusive extending on southward, with
major intrusions on either side, east and
west, broken by host rocks. We trended in
both directions, east/west, to get an idea of
size of intrusive area. We found several
samples which appear to have small blebs
of pyrochlore in them - will take samples
in to Karen for identification. Will
definitely have to return and do a thorough
prospect of area.

In closer to mosquito creek, the
only sign we found was several minor
outcrops of serpentinite - nothing of interest
was found in or near them.

~~Today~~ We followed easterly from where
we left off yesterday - found several outcrops
of mafics, interspaced by host rocks - there
is probably a major mafic embayment
beneath host rocks, but only highest points of
intrusives were exposed by ice advance.
Arrived back at camp 6:00 P.M. - hotcakes
only for supper!

June 15/95

Proceeded on direct route overland to camp on Creek #2, then on to town.

June 16/95 - town.

June 17/95

(15)

Back to camp on creek #2. Have decided we must try to incorporate the Argo into our plans, mainly to eliminate some of the extensive walking and backpacking we've been undertaking. Its use on even a part time basis will be a definite help.

June 18/95

(16)

Slashed trail and arrived at camp on mosquito creek with Argo at 5:36 P.M. Route runs more or less due south of camp on Creek #2 - its a tough one with many obstacles and turns but better than none.

June 19th, 20th, 21st, 22nd and 23rd

Spent these 5 days going over area to south, the mafic outcroppings. Moved pup tent etc. over to area of prospect. Mafics/Ultramafics recognized consist of clinite, peridotite, serpentinite, and probably some pyroxenite. A thorough prospect failed to yield anything of viability.

Other than a few samples with tiny blebs of pyrohotite in them, (which I have to verify yet with Karen) bedded or veined sulphides within the mafics seemed non-existent. Much of the rock here is streaked with stringer veins of what I believe is calcite, some of them quite wide.

The main ^{centre} lobe of mafic rock extends S.E. for probably 2 miles - smaller outcrops on either side of this, peter out more quickly as you trend southward. Typically, the whole area is covered with lichens making identity difficult. Some outcrop faces are discoloured from weathering, over an inch into the rock so much hammering is needed. Although I'll require some verification with Karen on the difference between mafic and ultramafic rocks, I'd say this area is lacking in ultramafics, still the pyrohotitic blebs indicate some form of sub weaker mineralization. Possibly there is surface bedded sulphide, but a drill programme would be required to find this out. ~~Other minor spots of~~ what I took to be peridotite/perovskite aren't much for ultramafics.

June 24/95

(22)

Moved camp back to Mosquito creek this A.M. Decided on some more traverses to east and south side of creek, beyond where we went on our last trip here.

(23)

June 25/95

Got early start. It took a bit of time to get beyond ground previously checked. Go cover this area methodically will take a few days. Area is basically the eastern end of lobe rising between Mosquito and Moose Brook. At best, we can complete only 1 line south to Moose Brook, ~~then~~ move eastward several hundred yards, then return to north. We spread apart keeping in vocal distance and zig-zag back and forth between the timber & brush.

It is a very difficult area to traverse - heavily timbered in places with many declines and inclines. It's quite hard to try and maintain straight lines as you traverse due to the irregularity of terrain. Bedrock outcrops are limited. We examined the upthrust face of a rift and found a quartz vein about 6" wide with some minor Chalcopyrite where it contacted the serpentine host rock - several minute specks of gold seen with the loop, were embedded in the best sample chip we found. We checked for further veining but none was found other than a few stringer veins near the main one. Arrived back at camp at 4:30 PM.

24 25 26 27 28

June 26, 27, 28, 29, 30.

On June 26, A.M., we backpacked more grub from Argo, broke camp and moved further downstream, adjacent to area of prospect.

Generally these 5 days proved quite disappointing. We did find 2 minor knobs of mafic rock sticking out of surrounding overburden, but nothing in the way of mineralization in them. In content they are quite similar to those found and examined June 19 to 23. - samples of which we'll take to town re verification. There is not a great deal of outcrop through area and had we known then, what we know now of this area, we wouldn't have bothered with it. But then again if you don't look, you don't know!

We completed trips on evening of June 29th and backpacked camp up to Argo.

On A.M. of June 30, we headed back to Creek #2, with intentions of finding access to head of creek #3.

Access proved easy and we scouted a nice campsite, then headed for town.

Karen Pelletier checked our samples and verified that one had small blobs of Placoch pyrochite in it - all were mafic w/ several samples ultramafic, and she emphasised that we were looking in the right areas. Also discovered missing bag of samples from main area of find.

July 1st, 2nd, 3rd town

July 4th/95 29

Arrived from town at noon to head of Creek #3 - set up camp then did some local prospecting around area, but found nothing of consequence. A small lake lies about $\frac{1}{4}$ mile from camp to the S.E. and more easterly there's a conspicuous dome that we've dubbed "Tit mountain". Undoubtedly, it will be a main landmark as we traverse area between here and Mosquito Creek. Although I do our grid-type traverses with bush compass in hand, it's less hectic when one can see a landmark.

There's a gorgeous sunset this evening, although gave up watching it at 11:30 P.M. and turned in.

July 5/95

(30)

We came up with a similar plan we used on Mosquito Creek, to prospect area between here and there as it seemed to work well in covering the area quite thoroughly.

Today will cover the only bush-free area in spot - that lying west of camp.

There's only a thin strip between head of creek and border of Indian Land Claim block although it goes S. S. W. back to Mosquito

I shouldn't call it bush-free as there is a lot of willow + brush and the odd stunted evergreen. But when looking to the jungle lying eastward of camp and downslope, it will undoubtedly be the only pleasurable foray we will undertake in this area.

Covered entire area, back to mosquito and East to lake - absolutely nothing of interest - most of area under overburden.

Moved Camp eastward to end of small lake. Can't move camp any further east than here, as there's no water source indicated, unless we find a spring somewhere.

July 6/95 (31)

Another disappointing day - Covered a lot of area - made 2 trips (lines) to Mosquito and 2 back. Most everything under overburden - found bedrock outcrops of Serpentine, limestone and marble, but no mafics.

32 33 34 35

July 7, 8, 9, 10, /95

In these four days we covered entire area north of Mosquito Creek from lake at head of Creek #3, eastward and downward to base of mountain. The mountain drops off extremely steep to the east, and the return

trips back to camp were very hard and steep. Again, this whole area seems devoid of mafics. A consistent jungle of willow and timber, coupled with severe incline, poor visibility, and several wrenching thundershowers we got caught in, certainly robbed us of any joy in the search.

The area is largely under overburden, and outcrops we did find trend more toward the host rocks of area - greenstone, limestone etc.

The only thing one could say was enjoyable was the superb view of Smith Lake and then beyond, Little Atlin Lake.

On return to camp on the fourth day, Troy got a nasty jab in the eye by a stick.

July 11/95 to town and back, same day.

Steady rain this day. Clouds are down on mountain - can't see much through the fog.

It's just as well as we need a day to re-coup - Troy's eye is quite bad but some eye-drops seem to be helping some. Rained all day, and all the way to town - Troy got eye checked, I got grub & returned to camp in evening.

July 12/95 (36)

Creek #3 has good placer platinum on the lower half - not so good on upper. The ice advance should have carried it from somewhere to Southeast - in specific the area of the ridge extending from "Tit" mountain, down ridge to North, on eastern side of Creek #3.

This is the area we now will prospect, as the weather seems O.K. but cloudy today.

Today we worked the steep drop-off south of Tit mountain. Rocks were typical host rocks of area with minor quartz intrusion here and there. Samples from thin stringer veins yielded little sign of mineralization.

Returned to new camp we established at a spring just south of "Tit" peak, at 4:00 P.M.

July 13, 14, 15, 16/95

37 38 39 40

These 4 days we spent working northward on lower drop-off area of Tit peak. Much of the upper portion of drop-off, we can't work as it's almost vertical - this is too bad as upward lies an area of clean, unhindered rock bluff, where down lower we have to be content examining slopes of scree, at the bottom of which begin the willows and brush.

On several instances we managed to climb the talus slides to the base of the bluff, but gave this up after Troy slid down with the debris about 100 feet and badly skinned his leg, on the 3rd day.

On the fourth day we gave up the steep drop-off east of Tit peak. Having worked our way about $\frac{3}{4}$ of a mile north and east of the peak.

Got back to camp at 4:00 P.M. broke camp and returned to Argo to replenish our grub, then went downstream, ^{creek} #3 about $\frac{1}{2}$ mile and set up new camp to prospect all along ridge to east of creek. Sure hope we break the "host rock" geology as of late, and run into some more mafic outcrops. Found route for Argo all the way to campsite.

July 17/95 (41)

Despite morning cloud and possible rain, we made our way up onto the ridge to the east + south, back toward Tit peak, covering the piece of area due north and west of the peak.

Much of area is heavy timber with overburden. We managed 4 lines - 2 going and 2 coming, bring our ~~east~~ northerly

Trend more or parallel with camp. We found one about bluff which dipped on other end into overburden. Nothing significant, but a pleasant surprise from host rocks. This rock appears to be a flow basalt without any signs of intrusion. Thin matrix since intersect the darker basalt, indicating flow movement. We flagged our way back to Creek #3, then down stream to camp No 2 as follow back to our continuation point tomorrow. Arrived camp 5:00 PM.

July 18, 19, 20/95

Route uneventful but on 20th we found large area of ~~unconformity~~ ^{outcrops}. They lie about $\frac{3}{4}$ mile due north of Mt peak, and run from a semi-clear area of brush, scattered into the timber for about $\frac{1}{2}$ mile x slightly less wide, in a rough oval. As we found area late in the afternoon we only did a preliminary check on area of outcrops.

July 21/95 43

Intermittent cloud has hung on for the last 5 days or so, but rain has held off, so this morning headed up to

new found area of mafics to start a closer prospect. Back at camp about 4:30 PM.

⁴⁴ ⁴⁵
July 22, 23/95

More of the same as the 21ST - have completed a very thorough prospect on these outcrops. The soreness of our arms from swinging the rock hammers is testament to this - yet we found nothing here resembling bedded or layered sulphide ore.

The outcrops rise in ~~spots~~^{ridges} or mounds to maybe 10' or 12'. They're all inter-channelled by, from fine to rocky overburden. Down at the base of one outcrop, a crack veeing back into the rock contained sulphur residue and when we hammered at the crack, we chipped off a piece across the face of the crack. Under the surface rock was revealed about $\frac{1}{4}$ " of sulphur filling the crack. About 18" above ground level it filtered out. We dug down about 2 feet along crack, then an underground bolder or ledge stopped us. The first mafic area we prospected back in June had similar occurrences, several cracks at the bases, infused with sulphur.

From what we studied on it, if there are sulphide ores prevalent, they usually lie deep in mafic intrusions, due to their

weight factor while the intrusion was flowing or molten.

Overburden around these outcrops seems to deny us inspection where it is mostly needed, namely deeper down.

^{46 47 48 49}
July 24/25/26/27/95

On the 24th and 25th we traversed due east about 1 mile, just north of mafics we just finished with, over top of ridge & down steep ~~side~~ drop-off that continues northward from Tit Mountain.

Here the drop off isn't as steep so we can traverse better than further south.

Still it's tough terrain, especially on return from bottom of drop, so we only do one line going & one coming back per day.

These 2 days proved fruitless and findings were nil. On the 26th, along the drop off, we found a 16" vein of quartz. There was no visible gold in it, but at the contact on either side was very visible arsenic pyrite. The vein dips downward from a small low outcrop wall into talus on lower side. The outcrop is ~~too~~ short and contains only the one vein with several thin veins which appear to be barren.

On the 27th, we set out, and traversing due east from our mark below camp, we went over the ridge and down what is left of the drop-off, and near the base of the mountain, ran smack into more mafics. We again did a preliminary before our return line to camp. This 'nest' of mafics ~~is~~ ^{is} about the same in size as the last one and similar in configuration.

It trends due north/south and lies on a steep side hill in an opening of willows and brush, about $\frac{1}{4}$ mile up from valley floor.

July ⁵⁰27, ⁵¹28, ⁵²29/95

Three more days of breaking rock, checking irregularities around bases or anywhere else we can find them. zip - nothing.

The only difference between this and the last spot is here we didn't even find sulphur. This area is highly networked with thin to thick veins of calcite (or quartz) but probably some of both. It also has much more rust through rock, and has probably undergone alteration involving intense heat.

These rocks here are plain mafics my guess is basalt, although it's harder to tell

with the rust and alteration they've undergone.

Nonetheless, this spot and the last spot seem pretty much straight mafics. They seem to be lacking several essential minerals such as olivine and magnesian.

The best sign of ultramafics we found was ~~up to and~~ south of Mosquito creek back in June, and it wasn't much, only ~~a~~ ^{several} small ~~spots~~ within the mafics. Still I now recall the total difference in appearance to these rocks. They brassy to black in color with visible small pieces of olivine in them - and they were notably heavier. It's unfortunate that the bag with those and many other samples in it was lost somewhere along the trail. I may go back over there this fall later on and try to find the bag - if not I could try and find the spot and get some more samples, although that would probably be difficult, the area is so big.

53
July 30/95

Although we awoke this A.M. feeling frustrated, disparaged, spunked etc., we soon brightened up with the gorgeous day that had dawned! We ran our 2 lines ~~with~~ north of those ultramaficless mafics we finished up with yesterday, and found little of interest. Mostly overburden and bush. Arrived back

at Camp 3:45 P.M.

(54)
July 31/95

This A.M. we did same as yesterday. 1 line going, move a bit north, and 1 line returning. Again, the only thing we accomplished was covering the ground, as we turned up nothing of interest. We're going to town today so arrived back at camp early. As we have more area to cover here, we decided to leave the camp intact.

As we prepared to leave, I noticed a big Grizzly up on the valley side hill. He was cautiously approaching camp, taking a few steps, then rear up, throwing his head back to test the air. I grabbed the 30-06 from the Argo, and shot into the dirt in front of him. Man I never knew they could move so fast - he was up that hill and into the brush and gone in a few seconds. Thinking he may return, we decided we'd better break camp rather than have it wrecked.

Up on the ridge approaching Crick No. 2, we stopped at an extensive outcrop network that we'd noticed in passing several times before. We did a quick preliminary of area and took some samples.

Will do a more thorough search later when we're covering this area.

Aug 3/95 (55)

A couple of days in town was nice. Troy decided ~~that~~ ^{that} he'd remain in the field with me for at least part of August.

The samples we took in were inspected by Craig Hart. He said they were serpentinite. Karen was away somewhere in the field. Craig advised us to check the area more thoroughly where the samples came from, which we'll do when we get to that area.

2 quers were both feeling a bit disappointed at the results obtained so far. About all we've proved ~~so far~~, is that mafic intrusion occurred well beyond the areas indicated on the bedrock geology map. Unfortunately, most all occurrences are lacking the requirements to have crossed over from Mafic to Ultramafic rocks.

From what I've read about it, P.G.E Sulphides ore is generally found in ultramafics, particularly those which are highly magnesian, and so far we just haven't found a solid ultramafic setting.

Arrived at campsite on creek #3 by
2:00 P.M. - setup tent etc.

Checked for sign of the bear at previous
site, but the shot must have scared him
good, as we saw no tracks - moved campsite
further downstream, closer to remainder of
search area.

Aug. 4/95

(56)

We awoke during the night to the
pounding of rain on the tent. Luckily we
have a good tarp fly over it.

Steady rain continued all day.
The tent fly extends out front, so we built
a fire before it and huddled out of the rain
all day. I can't say that on the whole this
summer has been that great - good till about
1st week in July, since then I can't recall the
number of times we got soaked in the field.

We only have about 3 or 4 days left to
check out lower portion of ridge down to valley
floor. Oh well, maybe tomorrow -

^{57 58 59}
Aug. 5, 6, 7/95

For these three days, we worked our
way back and forth through the timber, over the
ridge to the valley floor, back again to Creek 3.
We were quite methodical in our search, but
it seems as the grade gets gentler down

toward the valley floor, the bedrock outcrops became less and less.

East and a bit north of a hump or hill which lies beside the headwaters of a trib of creek #3, on the drop-off side (east) to the valley floor, we again found mafics.

We spent all day of the 5th here. The area was well scoured over by the ice advance, but it in turn left much rubble scattered through the trees and brush, leaving most of the bedrock under cover. But here and there it's exposed, and there appears to be mafic intrusives extending about $\frac{1}{3}$ of a mile, half that in width, trending north/south along steep sidehill.

We'll return here for at least a day or 2 after completing about $\frac{1}{2}$ mile of the lower ridge. However, I'm not optimistic, as we've found no ultramafics in our preliminary of this area.

Farther down ridge, we found several minor outcrops and it appears as though the geology has returned to common host rocks of area. such as??

Aug. 8, 9th / 95

Did good search of mafic area

found Aug. 5th, but as usual, found nothing there.

Not that I expected much as there's so little exposed bedrock there. We also analysed a lot of the debris there, some of which were mafic, but nothing we found looked like ultramafic.

⁶⁰
Aug. 10/95

The only area left in our programme is the area lying between creeks #3 and #2 - up to the land claims border and west of the head of creek #2, part of which was previously staked, but is now open.

We began this AM. at the bottom of the V between creeks 2 and 3 (they join down below). The base of the 'V' rises gently upward into pine timber. We didn't find any outcrops to speak about as we covered the bottom area. Back to camp by 4:00 P.M.

^{61 62 63}
Aug. 11, 12, 13/95

These 3 days, we methodically worked our lines back and forth, advancing up hill, to a point below the middle of the V, about $\frac{1}{2}$ of the way up. As we rise in elevation, the terrain becomes more rugged and rifted,

so progress becomes slower. This is good, as there's more outcrops to check, also upthrust walls of rifts etc. The one setback in area is the willow, brush and timber here - extremely ~~the~~ dense. We can tell where each other is by the constant rapping of rock hammers. Lichen is very bad also, making identification of rock impossible without breaking it.

On afternoon of 13th. we came upon several outcrop ridges of serpentinite rising from overburden. We'll spend part of tomorrow or all of it checking this out better. We've also noticed more green-schist accompanying host rocks here.

Aug 14th ⁶⁴ 15th

Weather threatening this A.M. - we're on the go anyway. As we do when rain looks possible, each of us throws a folded garbage bag in a pocket - it makes a great waterproof poncho.

Spent the whole day at site of Serpentinite bluffs, ridges and bedrock mounds which proved to be more numerous than we thought.

Some of these outcrops ~~do~~ contain much chlorite, which is typical to host rocks of this area. The serpentinite is found usually basal to midway up outcrops -

In some cases only minor veining or pocketing, between and through a complex matrix of highly altered rocks, mainly of the serpentine order, in other areas the serpentine is almost massive. Typical of that found on other site, which Craig Hart verified, it appears to be almost black, but in good light, a fresh fractured plane reveals an element of green (clinovine)

Nothing again of any meaning was found, and I think today as we returned to camp, our spirits are at an all time low.

The futility of it all, makes us feel like throwing in the towel - just giving up and going home.

⁶⁵ ⁶⁶
Aug 16, 17th/95

It can be very frustrating - you know its there somewhere, its in 4 creeks in area (better signs of platinum were passed further down Mosquito Creek) yet day after day you can't seem to put a finger on it.

However, the search goes on and for these 2 days, we sporadically got rained on, eaten by bugs which the crappy weather seems to propagate, and begrudgingly completed our 2 lines each day, with findings totalling nothing but outcrops of host rocks. Drawing

back in camp, decided to head in to town, will have to move camp further up Creek no. 3 anyway, so broke camp, and dropped ~~dropped~~ off our stuff at a previous campsite before proceeding on to town. Perhaps a couple days away will rebuild some resolve back into what we're doing.

Aug 18, 19/95 - in Town.

Aug. 20/95

Arrived back on Creek #3 - set up camp. Troy has agreed to see things through with me, even though I know hes getting fed up with it, as am I.

^{67 68 69 70}
Aug. 21, 22, 23, 24/95

Our quest has taken on a bit of a new twist - we now pack a goldpan and a small fold-up army shovel

During these 4 days, while checking hardrock, at selected sites, we've taken samples of fines. If theres no water at site, well pack sample till we find some. Usually there is water, as the most common site of our samples, has been the gap between rifts, where often there is rainwater in pools, or active

springs flowing. Since there is many rifts here, also some tiny swamps, we usually don't have to pack samples far.

In the 4 days, this procedure produced many barren pans but also many with platinum colors and a few gold colors as well.

On the hardrock side, we faithfully maintained our 2 lines a day - 1 going, move up a couple hundred yards and return on compass. The span between the 'V' here is over a mile from creek to creek.

Most of the outcrops we have checked through here, rise from an overburden of alpine glacial alluvium, totally unconsolidated with boulders big as a house, down to the finest grains of sand and all sizes between.

I find it surprising at this altitude, the complete mastery the ice seems to have had over the rock. Complete initiation of surface bedrock, leaving nothing but fractured ~~and~~ ridges and worn round mounds (some with striation lines) surrounded by an overburden bed of remains from less successful obstacles in the ice-path.

As we advance S.W. up ridge we've found several outcrops of dunite, but just plain dunite, totally devoid of the ultramafic profile, or at least not visible as many are cropped down low to the

ground, some just a bare spot exposed with debris around it.

You have to break into the rock as the exterior weathering is grey for almost an inch, where it slowly turns the dun color of its name. Black flecks of what looks to be hornfels is a component of some outcrops.

⁷¹
Aug. 25th/95

Had a display of lightning last night - both sheet and bolt, the like of which I haven't seen in many a year.

It just poured down - after awhile it tapered off to a steady rain which is still coming down this A.M.

It quit by 11:00 A.M. and we set out by 12:00. Did our 2 licks and back at camp by 6:30 P.M. with nothing of mention to report.

⁷² ⁷³ ⁷⁴
Aug. 26, 27, 28th/95

Just more of the same these 3 days with nothing of note to report.

Several samples of fines yielded both gold and platinum colors and a nice tiny flake of platinum about $\frac{1}{16}$ " long.

In afternoon of the 28th we struck lower boundary of that major occurrence of

Serpentine outcrops near upper right limit of creek #2. Didn't phase, as this complex of outcrops is quite extensive and will need at least a couple days to thoroughly check it out.

Arriving back we broke camp and moved up creek #3, closer to work area.

Aug. ⁷⁵29, ⁷⁶30, ⁷⁷31ST/95

We spent these 3 days going through this large complex of outcroppings, which runs roughly parallel along upper right limit of Creek #2 for over $\frac{1}{2}$ mile x about $\frac{1}{4}$ in width.

Some are dike like, others as ridges, and some as mound shaped. Because this area lies on the downslope side of the ridge and about 1000' from Creek #2, it lies kind of on the Leeward side of the ice advance, and have retained some height, up to maybe 20' on some outcrops.

They all rise out of overburden making anything below their base, difficult to trace.

Not that we encountered anything worth tracing and shoveling downward for, but on several occasions we did dig down along footwalls; in particular,

where we encountered thick bedded serpentinite at the basal areas of some dike like lenses. Our purpose in this was to see if anything (namely sulphides) had bedded deeper in the veined or layered serpentinite.

But no cigar - all we found was serpentinite continuing downward.

The upper levels of these outcrops, the same as those we found halfway down the ridge, appear to be highly altered, containing a variety of serpentine type rocks, with highly differentiated grains and textures, a goodly amount of chlorites, and a noticeable lessening of serpentinization in upper pile of mafics.

We also noted here a total absence of calcite veining, but some locations contained very thin veins of quartz, which almost went undetected under the thin mask of lichen. Typical copper staining was noticed in these thin veinlets, but little other mineralization. Returned to camp on 31st at 5:00 PM.

We require approx another week to fulfill our program reqmts. (90 days in field I believe) and have lots of grub so will push on through without our trip to town.

78 79 86

Sept. 1, 2, 3/85

Although there is still surrounding us, a definite air of disappointment me and Troy had a talk before resuming our search on Sept. 1. I told him that our failure to find sulphide or disseminated sulphide ore, did not fail for our lack of effort. I said "Look, we found mafics all over the area and can indicate them on a map. We've worked damn hard at it and it's not our fault that all the finds but one were lacking the ultramafic profile and we found no ore even at that site, eh?"

This seemed to perk us both up and I think at that point we both accepted it and pulled the tail out from between our legs so to speak.

We've been out of heavy timber for several days so the going got better and we ran our compass lines on up and S.W. until on the 3rd we reached a point in line with the heads of #2 + #3 Creeks, without finding much of interest.

Sept 4/85

We broke camp this A.M. and headed up to head of Creek #3. Before crossing

over the top to head of creek #2, where we will next set up camp, we swung south to that huge area of mafics, to try and find that lost bag of samples. Although we spent several hours looking for it, and for the spots ^{where} we found those ultramafics, we could find neither one and set off north to Creek #2.

There we found a campsite and set up camp. By this time it was 4:00 P.M.

82 83 84
Sept. 5, 6, 7th/95

These last 3 days were like a holiday for us - all open country, riding to work area in Cerge, and a fantastic view wherever you looked.

The weather even co-operated, although the nights are getting fairly nippy with good morning frosts up here.

The ground left to check is a corridor between indian land claims block and staked block of hard rock lying due west from head of creek #2.

We abandoned the compass line method here, and just sort of wandered around the corridor at random, from out crop to out crop.

most of those checked up here are
dunite (those that are mafic) as indicated
on bedrock geology map.

But there are other mafics here too.
We've checked several outcrops of basalt~~ic~~ and
several which look more of felsic appearance,
possibly ~~pyroclastic~~ pyroclast.

We found samples of pyroxenite in the
local debris, but could not ^{find} theirs or any
other ultramafics origin in outcrops.

Several trips back, I obtained samples of
peridotite, pyroxinite, pentlandite and several
others from Chamber of Mines, so when I spotted
that pyroxenite it didn't take long to be sure.
But finding it in debris is useless to you.

We also found much quartz over
area with small degrees of variable mineralization
here and there, but certainly nothing to head
down to Timberline looking for stakes over.

Arrived back at camp, broke it and
headed to town.

Trays glad to be done - me I'm not
done. I expect to be returning on several shorter
trips through Sept, unless it snows. There's
spots up top here and south I'd still like to
do a bit of poking around on.

NAME • NOM DONALD LOEHNDORF

SUBJECT • SUJET PROJECT TECHNICAL REPORT / SUMMARY 1943

JUBILEE MOUNTAIN - 105 - DI

TECHNICAL DATA

The area prospected, is accessed by a bush road beginning at the Jubilee Tower and terminating 5.5 miles later at creek # 2. (see map)

Geology:- area is underlain by Taku Group andesite flows, pyroclasts and intercalated cherts that form an reef pendant above, or an embayment into a large dunite intrusion.

Area prospected is approximately 10 km maximum trending north/south, by a variable east/west trend of 2 to 5 km. Area was divided into 3 blocks on map, Blocks, 'A', 'B', and 'C' and each block was methodically covered in its separate time frame.

Accompanying technical report are 2 maps. One gives approximate boundaries of prospecting, divisions of each block as well as block Completion Dates, Directions and methods of traverses, and road access.

The second map is keyed to log book by date. It also contains a log in which finds are identified by mafic/ultramafic rock type. This log uses a letter system i.e. dunite - 'D'. As well as giving approximate locations, it gives approximate sizes of finds (I tried to keep finds to map scale) as well as directional trends of outcrops.

It shows areas and dates of hand digging, sampling and panning etc.

Overall, 294 rock samples were taken. Of these only about 10 were ultramafic, and 2 pyroxenite. Our main pack of samples from area covered June 19 to 23rd was lost. However, from remembering their appearances, I later

inspected samples from Chamber of Mines and verified their type.

Attempts were made at a few locations, at following abnormalities in dike or walls, down into overburden, by means of hand digging. As well, panning for samples from many sites in black 'C' yielded platinum and gold specks.

Because creeks # 1, 2 and 3 are unnamed I listed them by number, which later proved valuable in locating camps, traverses, finds etc to map.

SUMMARY

What me and my partner originally thought to be a relatively easy programme, turned quite rapidly into one of major proportions, due to a series of difficulties encountered throughout prospect area.

Pondering back now, there were times that the futility of failure after failure, weakened our resolve so that small problems became large, and large ones momentous or even insurmountable. At those times we both had to dig deep for reason to continue.

But being of a determined nature, defeat came hard to us and the project was seen through.

And even though no ore bodies were found, we realized after that there is an up-side to the project, of major importance, and that it was not a total failure.

First of all, we established that mafic structure, in some cases, lies well beyond that indicated on bedrock geology map. Possibly these sub-areas run in continuity to

major areas indicated on bedrock map, but overburden prevents verification of this.

Secondly, prospecting found mineralization in quartz veins in 2 areas - these themselves are not too significant, but nonetheless are considered leads. A more intensified search of these leads could lead to a viable project.

Thirdly, as well as establishing that there is platinum (placers) in a fourth creek, it was also, at selected sites up higher, found in the fines of post glacial alpine alluvium.

Fourth and finally, it has narrowed the search down to 3 areas of concentration - these 3 spots were the only producers of any ultramafics.

In conclusion, to briefly summarize, the project has helped in determining the possibility of several scenarios:

(a) There is a possibility that sulphide platinum ore, disseminated, veined or bedded, was superficial. I can vouch to the aggressiveness of the ice advance, in even upper areas, and there are places where possibly several hundred feet of rock were removed, plowed and scattered. If the ore was only near the upper mafic pile, it could be ground into platinum enriched alluvium at present. This would explain the enrichment in the creek placers, but -

(b) My belief lies more in line with this: - I think the geology of the area, coupled with the magnitude of the area of platinum bearing alluvium, lends credence to the probability that ore deposits are not confined to one or two spots, but are located in several, perhaps numerous areas as they often are in a geological setting of faulting, rifting and shear zones. Because the percentage of area left in visible outcrop is so small against the miles under overburden, it's a good chance that nothing of the ore was found because

it's located under overburden. Also taking into consideration the difficulty of prospecting, where such commonplace detectors such as grain, cleavage, layering, porosity, veining and color all lie under a consistent mask of lichen, there remains a good possibility that a lead or even ore went without detection at some location we covered. In most cases one had to break rock and remove up to 1" deep just to read color and type of rock, and it's a total impossibility to clear lichen over complete surface of every outcrop, to check it out.

COMPLETED OCT. 11/95

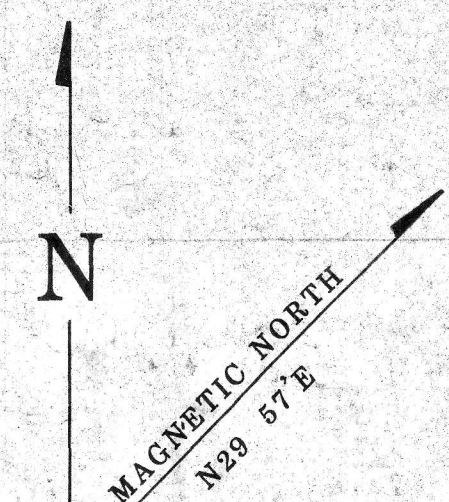
105D-1
QUARTZ & PLACER

LATITUDE 60 00'-60 15'
LONGITUDE 134 00'-134 30'

ISSUED UNDER THE AUTHORITY OF THE MINISTER
OF
INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

SCALE 1:50,000

METRES 1000 0 1000 2000
1000 0 1500 3000 4000 6000 7500 9000 10500
FEET 1000 0 1500 3000 4000 6000 7500 9000 10500



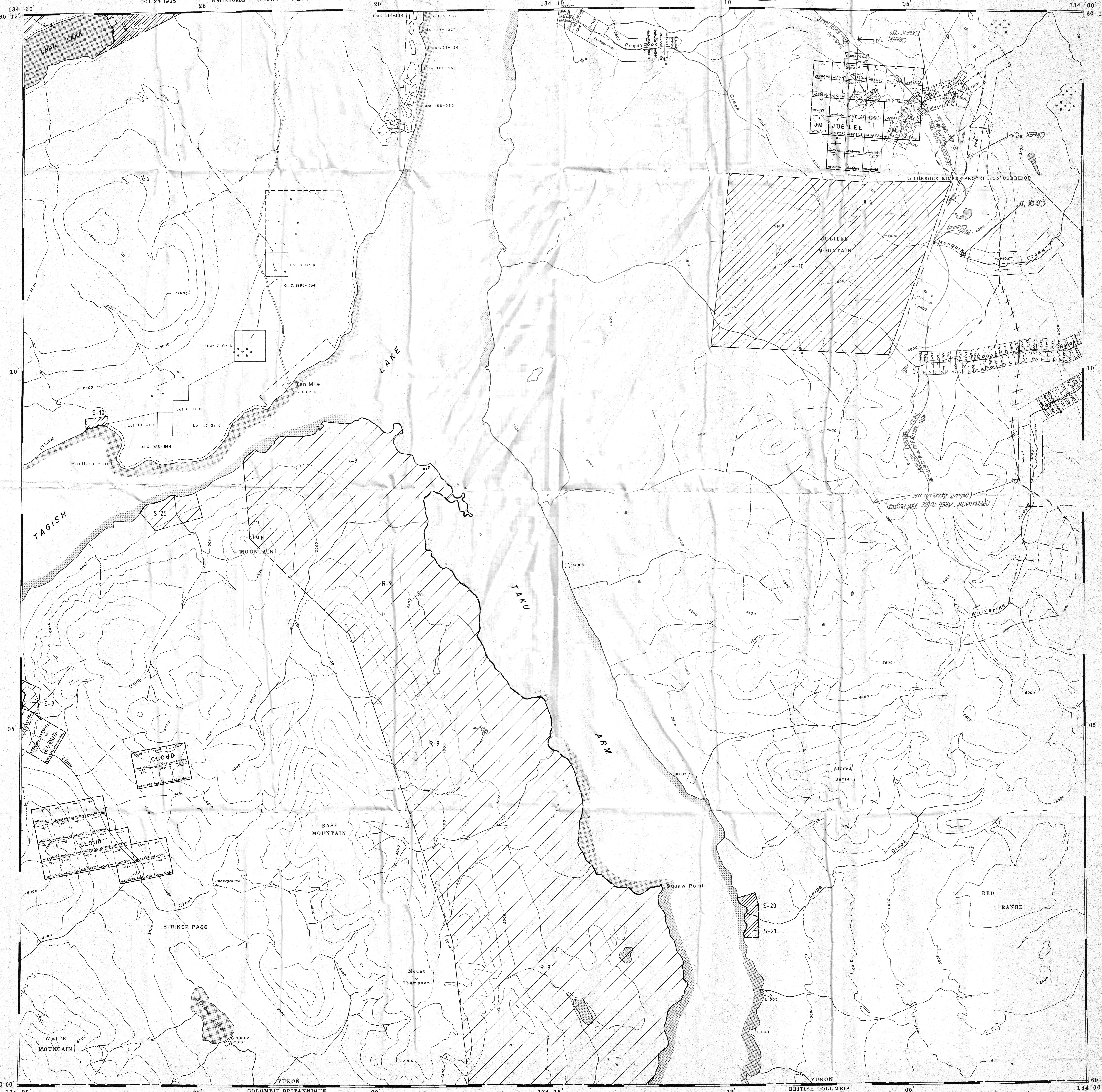
NOTE:

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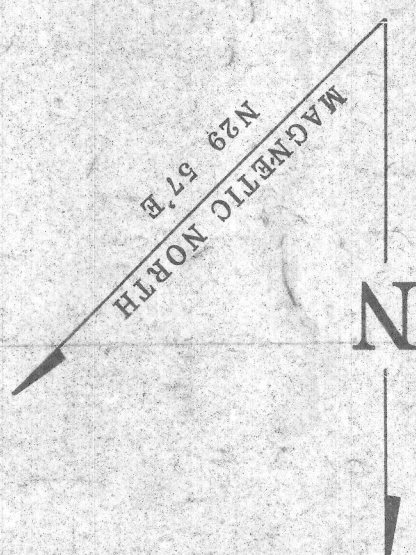
TOPOGRAPHY COMPILED FROM 1:50,000 NATIONAL TOPOGRAPHIC SERIES. CONTOUR INTERVAL 500 FEET. SURVEY INFORMATION COMPILED FROM LEGAL SURVEYS, BY DRAFTING SERVICES.

Note: Entry on certain lands is withdrawn from staking in cross-hatched areas to facilitate the settlement of Native Land Claims without prejudice to Existing Surface and Subsurface Rights.

105D-7	105D-8	105C-6
105D-2	105D-1	105C-4
BRITISH COLUMBIA COLOMBIE BRITANNIQUE		

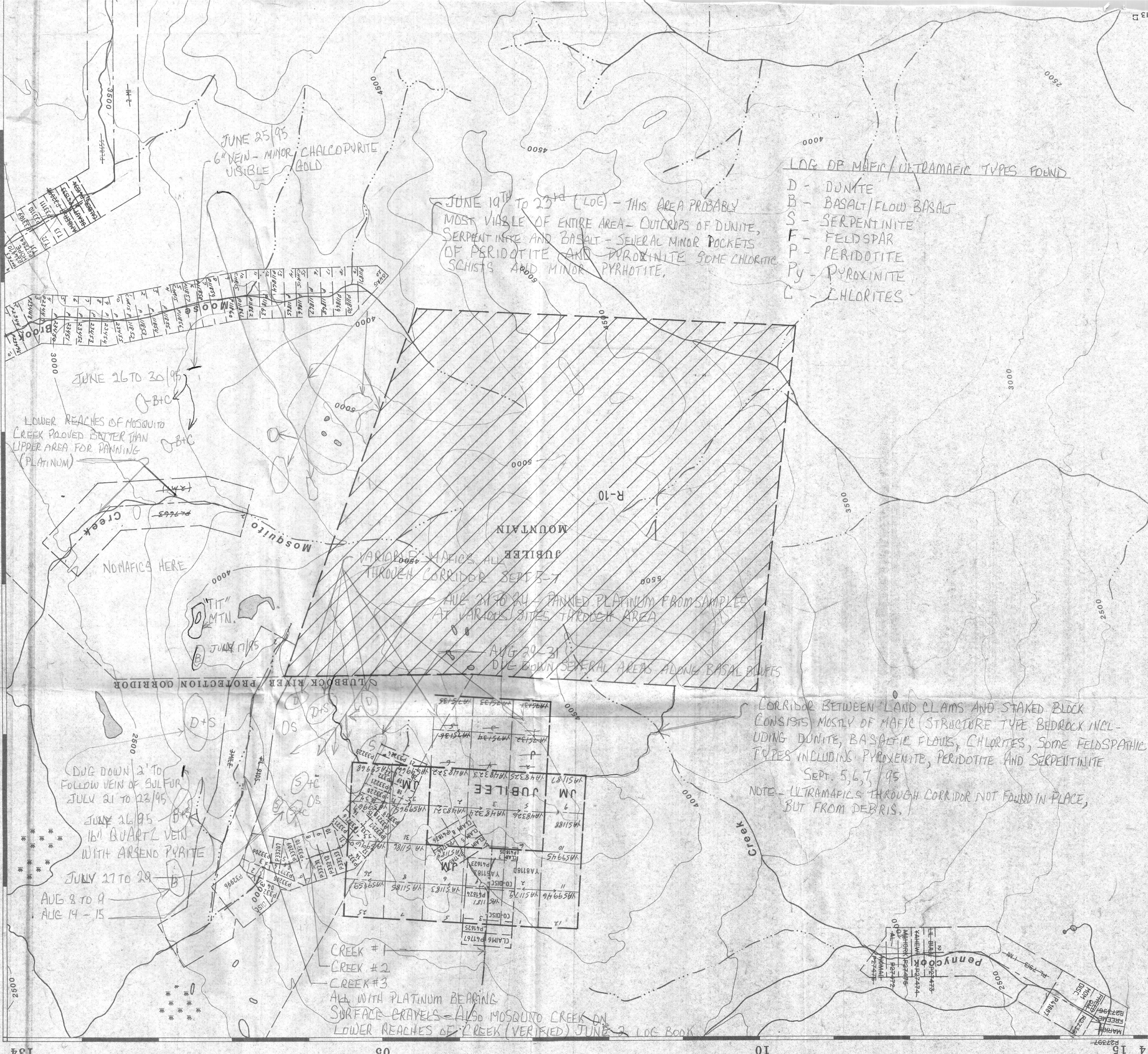


60 00'-60 15'
134 00'-134 30'
OF THE MINISTERS
NORTHERN DEVELOPMENT
1:30,000
METRES
2000 1000 4000 6000 7500 9000 10500
FEET



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105D-7	105D-8	105C-5
105D-2	105D-1	105C-4
BRITISH COLUMBIA COLOMBIE BRITANNIQUE		



LOG OF MAFIC/ULTRAMAFIC TYPES FOUND
D - DUNITE
B - BASALT/FLOW BASALT
S - SERPENTINITE
F - FELDSPAR
P - PERIDOTITE
Py - PYROXINITE
C - CHLORITES

JUNE 19th TO 23rd (LOG) - THIS AREA PROBABLY
MOST VIABLE OF ENTIRE AREA - OUTCROPS OF DUNITE,
SERPENTINITE AND BASALT - SEVERAL MINOR POCKETS
OF PERIDOTITE AND PYROXINITE SOME CHLORITIC
SCHISTS AND MINOR PYRROTITE.

JUNE 25/95
6" VEIN - MINOR CHALCOPRITE
VISIBLE

JUNE 26 TO 30/95

LOWER REACHES OF MOSQUITO
CREEK PROVED BETTER THAN
UPPER AREA FOR PANNING
(PLATINUM)

VARIABLE MAFICS ALL
THROUGH CORRIDOR SEPT 5-7

AUG 21 TO 24 - PANNED PLATINUM FROM SAMPLES
AT VARIOUS SITES THROUGH AREA

AUG 29-31:
DUG DOWN SEVERAL AREAS ALONG BASAL BLUFFS

CORRIDOR BETWEEN LAND CLAIMS AND STAKED BLOCK
CONSISTS MOSTLY OF MAFIC (STRUCTURE TYPE BEDROCK INCL-
UDING DUNITE, BASALTIC FLOWS, CHLORITES, SOME FELDSPATHIC
TYPES INCLUDING PYROXENITE, PERIDOTITE AND SERPENTINITE
SEPT. 5, 6, 7, 95
NOTE - ULTRAMAFICS THROUGH CORRIDOR NOT FOUND IN PLACE,
BUT FROM DEBRIS.

DUG DOWN 2' TO
FOLLOW VEIN OF SULFUR
JULY 21 TO 23/95

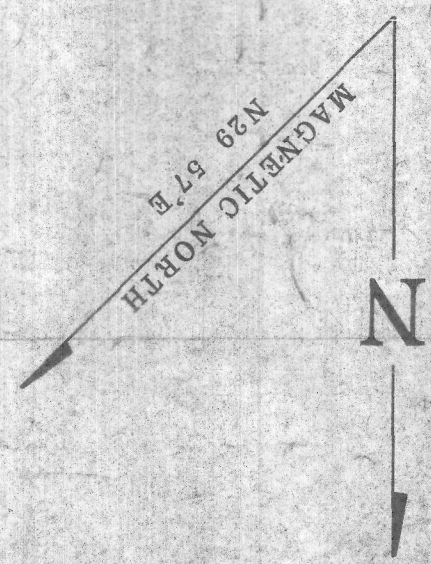
JULY 26/95
16" QUARTZ VEIN
WITH ARSENIC PYRITE

JULY 27 TO 28
AUG 8 TO 9
AUG 14 - 15

CREEK #1
CREEK #2
CREEK #3
ALL WITH PLATINUM BEARING
SURFACE GRAVELS - ALSO MOSQUITO CREEK ON
LOWER REACHES OF CREEK (VERIFIED) JUNE 2 LOG BOOK

DE 60 00'-60 15"
E 134 00'-134 30"
AUTHORITY OF THE MINISTER
OF
IND NORTHERN DEVELOPMENT

SCALE 1:30,000
METRES
2000 1000 4500 6000 7500 9000 10500
FEET



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105D-7	105D-8	105C-3
105D-2	105D-1	105C-4
BRITISH COLUMBIA		
COLOMBIE BRITANNIQUE		

