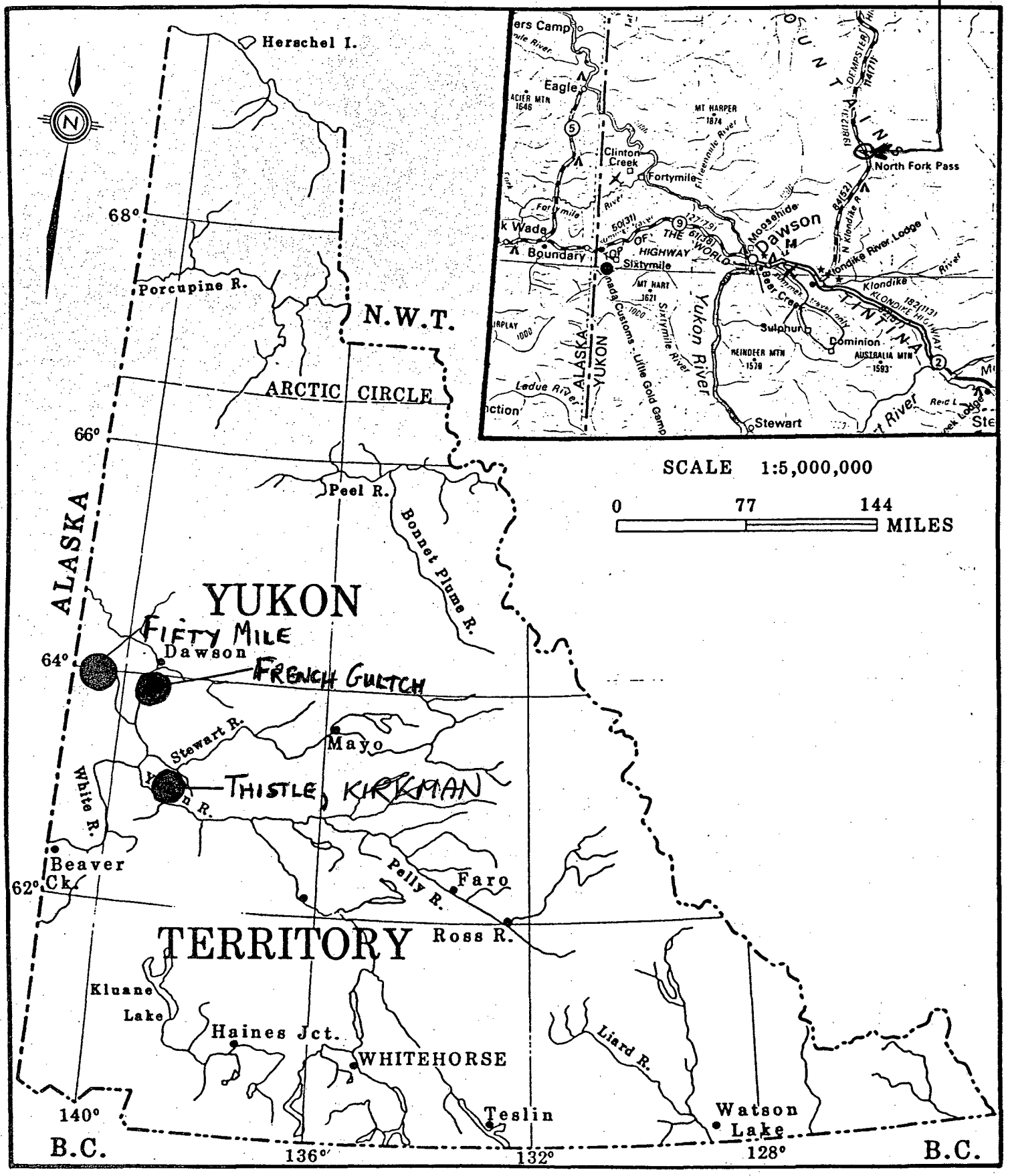
2001-037

Figure 1. Location Map

HIP BARITE



GRAND FORKS

YUKON TERRITORY TERRITOIRE

KLONDIKE

YUKON PLATE

A CENTRE FOR MAPPING,
MINES AND RESOURCES.
F 1989. PUBLISHED IN 1993.

M THE CANADA MAP OFFICE,
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UEEN IN RIGHT OF CANADA.

Roads:

Routes:

575000m. E.

ANADA

Refer to this map as:	115 O/ 13 EDITION 1 ASE SERIES A 722

EDITION 1

CARTE PROVISOIRE

115 O/13

61 45′ 62 63 64 65 40′ 66 67 68 69 35′ 70 71 72 73 139°30′ 64°00′

97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79

55′ 50′

BAS SIA

CAR S2

CAS SIA A+B

RIVER

Creek

YK1 Rock

YK2 Rock

YK3 Rock

Telephone Line

Abandoned

ENS 101 A+B

ENS 103 A+B

ENS 101

ENH#1 Rock

ENH#2 Silt

VK9 Silt

JIN CREEK 101 Rock

JIN CREEK 101 Silt

JIN#3 Silt

JIN#2 Rock

JIN#1 Rock

SOIL GRID

R186#1

R186#2

R186#3

R186#5

R186#6+7

R186#8+9

R186#10, N+12

R186#13

JIN#10+109 Rock

3740

N

CANADA

Refer to this map as:	115 J/14 EDITION 1 ASE SERIES A 722

EDITION 1

CARTE PROVISOIRE

115 J/14

,000

82 83 84 20′ 85 86 87 88 15′ 89 90 91 92 10′ 94 95 96 05′ 98 99 600 139°00′ 63°00′

86 85 84 83 82 81 80 79 78 55′ 77 76

Kirkman Creek
Kirkman Creek
BM 1238
Kirkman Creek
Y U K O N
R I V E R
Coffee Creek
Dan Creek
Mary Creek
Hall-ow-oz
Creek

SKIR035
SKIR037
SKIR036
SSPA031
SSPA030
SSPA35
SPA032
SPA031
SSPA034
SPA033
SSPA032
SPA034
5041
BAL0230
BAL0202
BAL0203
END OF ROAD

THISTLE CREEK
YUKON TERRITORY

SCALE 1:50,000 ÉCHELLE

Miles 1 0 1 2 3 Milles

Roads / Routes

Building ..... Bâtiment
School ..... École
Church ..... Église
Barn ..... Grange
Post Office ..... Bureau de poste
Cemetery ..... Cimetière

Établie et imprimée par la DI
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10 April - 6 July : overlaps 6 July - 17 July (1)

AC Rudis

10 Apr 2001 Exploration/Field Notes - Concerning TMIP target Evaluations for Ralph Nordling, Bonnie Nordling, Cheryl Young & ~~Target Evaluation for AC~~ Prospecting Grant for AC Rudis in 50 Mile Creek Area.

Began systematic analysis of 50 Mile Samples; Hard Rock, Pan, Silt and Lag Fines. Goal is to facilitate follow-up Sampling & develop sampling plan for target Evaluation. Obtained loan of 40x Stereo Microscope which allows evaluation of area Micro-scopic and pan gold potentials, and the identification of minerals to allow better targeting of hard rock placer source and potential hot spots - concentration areas for placer gold.

10 April: took out and analyzed hard rock samples under hand lense to identify potential rock types to claims. In particular looked for possible Kimberlite among ultramafic

Samples. Nordberg & Reed's 2 hours each.

11 April. Located all long tom & pit samples from work done in 1998, 1999, and 2000. These consist of 1998, 1999 long tom concentrates, pan concentrates (with visible gold removed) for long tom concentrates. Pan concentrates & visible gold extracted. Samples were left in heavy plastic bags and were still wet. These were all organized to dry for further microscopic analysis, and forwarding on to lab analysis. In particular interest in analysis will be in fine gold residual content, and mineral content. There will be tied to location in attempt to localize placer gold concentrations, patterns, location of source. Also to identify variety of cherry red garnet.

2 hours organizing.
2 hours removing dry samples.
1 hours inventory.
} All

April 12:

Organized Work Space with Microscope and dry samples, Black Light - etc.

(AE - 2 hours)

4-Hours

May 3 - Internet Research on plant idea. A new idea with patent filed April 20th, 2001 utilizes a KDS Micronex Gold Machine (Redesigned) for processing gold bearing quartz at Vesuvius, Inc., Tekullah Mine Site Nevada. It is a "high efficiency, low cost diesel driven" chemical-less process to be used at the Tellukah Mine (Nevada) and Beaudre Mining Corp - Valentine Mountain Site in B.C. Developed by Mr. Beaudre in conjunction with Robert Salter, Phd, UVIC. Needs to be researched as to patent idea.

Recoveries upto 97%. Seems to involve a chain / hammer mill that uses ultrasonics and collects heavies in a "waste pan known as a clam. Extracts gold "down to the micron level from Beaudre Pre Ore.

Also Can-Cal Resources is using a Smelter process pilot process. Uses 27 pounds of flux, 20 pounds of unquart silver (as

catalist to produce (against 2016 feed) a dore from which the gold is extracted by acid digestion. Cost was 189.29 per oz less refining charge of 5.48/oz. Produced .7172 oz gold from 220 lbs volcanic material ~~or~~ (ore at 5.36 oz/ton). ~~Seems~~ Particle size: 2cm and 710 Microns - 11.62%; 250 Micro to 710 Micron 35.54%; less than 250 Microcons (52.83%). [the question is why wouldn't bromide work - perhaps in conjunction with KDS machine?] [Marketing?]

Also worked up figures on % fines from Witteck report on White Channel Heap Leaching (DIAND) #5203, Mar 31, 1987. Shows % fines for ranges +115, +200, and -200 Mesh. Results encouraging. [Need to develop/get separate notebook for plant idea].

4 May: 50 Mile 1998 Long term concentrates still drying. Some of the pan concentrates from the long term are dry. Checked Sample 98-8. Showed considerable minerals of interest including coarse scheelite that could not have come far. Microscope at 40x, so could not have come far so mineral identification "iffy" for some items. Significant ammount of clear fine radiating crystals that certainly did not come far as very vulnerable to fracture. [We need to cover this area with claims] Probably Hemimorphite an oxidized zinc product of lead-zinc deposits. Also found.

- Majority is magnetite.
- Two Types (by colour) garnet grossular and pyrope?
- Bornite, hornblende.
- No apparent zircon
- Considerable scheelite.
- Possible guestimates:
  - Wolfenite
  - Celesite
  - Molybdenite

5 May - Trip up Bonanza. Check out road access to Jim Archibald's road and lower French Gulch. Road not passible at Creek - but clear most of the way.

8 May - Researched Materials on fine gold processing. Checked samples under microscope for fine gold and indications of 50 Mile bedrock source.

PSB-7 two white stones from long tom - panned held because heavy white and possible scheelite. No reaction to black light. Very hard (+7), very heavy. Not Schelite. Partial crystal form noted. triclinic, trigonal or perhaps edge of orthorhombic. Could be Zircon or phenakite - but most likely topaz - Piece about 3/4" long.

50 Mile 99. - Pebles (small) of Magnetite and hematite, ~~under Microscop~~ check to gold. Under Microscope 4 pieces magnetic, three non-magnetic No gold. Magnetite has some included garnet. Non-Magnetite

probable amphibolite - grades fine to coarse - garnet, quartz - possible topaz -

98-5 Small chips of brownish-white heavy mineral. Largest 4 mm. Pure scheelite. Good sample to show Ralph wheat scheelite looks like under black light.

4 Hours.

9 May:

Checked all 1999 sluice box and pan samples for drying. Inventoried, removed small bags of pan cons from large sluice box bag, spread out for better drying. 4 hours.

Researched bromide process on net 3 hours. Envirogold is for follow up. Uses proprietary "shatter, break pulverizer (possible modified hammer mill) for milling claims 50 - 2000 tons per day for unit which is portable. Seems to work a concentrator - but not clean. They will work

on property with about .5 oz Au in quartz and will "stockpile effluent" for possible low grade extraction using Sodium Bromide process which they claim is 20 times as fast and more friendly to the environment than cyanide. Seems to have parallel idea to mine without key elements.

11 May - Continued to work on core inventory for analysis on heavy mineral and mineral identification for selected samples.

Noted for 97-3 vials from Den Keasey's table: larger pieces showed abundant green material identified by Galambos as as fuchsite (mariposite) a chromite mica. Also some brilliant diamond-like speck - but no firm positive. Garnet possibly grossular and sparse pyrope.
84 Samples ~~analyzed~~ inventoried and annotated. 8 Hours.
Research fine gold on Net 3 Hours.

26 May - trip up Bonanza to see if can get to Jim Archibalds and access FG area. talk & visit on his work in finding the 1900's 320° quartz vein on left limit bench of French Gulch. Jim has been striping / trenching back to try to intersect location of his original 30' shaft to vein. He has found some gold at bedrock / gravel interface, and lots of galena.

27 May: Ralph & I field trip to Bonanza, Eldorado to check on French Gulch area and confirm proximity of Baramundi claim lines. Baramundi dropped claims in area, and we may need to adjust scope of prospecting on target pups entering French Gulch. Area around target pups is clear - Area around Jim Archibald's now needs to be prospected/checked. Will have to make sure sampling in Archibald's area (lower left limit French Gulch) is not contaminated by White Cleaned gravels. Jim says there are no white cleaned gravels on upper/mid French Gulch right limit ridge. He said that a miner has placer staked the area above our target pups - ~~but~~ and the ground is good - but that it looks more like decomposed bedrock than gravel to him. Could be a good lead for sampling upper pups. Also Jim has told of large nugget encased in schist - No quartz - from Eldorado Ridge adjacent to French Gulch right limit. 60 Miles traveled.

1-2 June: trips out to French Gulch with Ralph to try to find access of old cat trail to ridge above two target pups. Eldorado creek road still unpassable except to 4 wheel drive at creek crossing. Road up ~~Eld~~ French Gulch to Indian River also in rough condition. Located two gulches involved and say that they are steep and narrow, with a short run to the top. This will limit the area from which the sediment samples would be enriched. Access from the top of ridge above the gulches will simplify access down the gulch and allow ~~boat~~ broader sampling over the ridge line. A good flow of water was observed in both gulches. Ralph noted that Jim Archibald has found that nuggets in his placer operation increase toward the right limit of French Gulch, and decrease to the point of becoming very fine above the left limit. This points to the right limit area as a more

probable source. Checked gossans exposed below white channel gravel from Cherokee hill to French gulch. Noted considerable alteration in the bedrock that extends into the White Channel gravels. Appears to be hydro-thermal alteration that may have lead to an epithermal fine gold enrichment a la Mufresne. Road leading off 86 main road over ridge line not dry enough yet, as we found out by getting stuck for two hours of road building experience hacking out of a foot of muck.

April 22nd 2001.

Check of midlings from table - for microscopic gold at pit 98-10 (upstream of A Creek camp site. Quite a bit found on cap of container. Several types implying multiple sources. 40x microscope. Possible small % of whole captured in long run and significant per yard values. Need to check nearby pits. Various types - and small (.1 grain) visible gold in 1 yard sample panned - could mean top to bottom dissemination and perhaps vein to vein (i.e. -270 gold not concentrated in channel. Follow-up - Fire Assay Midling - Weight total sample - compare with estimated yard. Gold types - Reddish, Yellow, Whitish - possible electrum - Flattened - Some included blueish mineral sparkles. Associated minerals - one blueish clear crystal. Gold size some tiny visible - other microscopic only. Some bright yellow gold - a hooked quartz spec. One tiny blue mineral with included gold - perhaps calcopyrite but not likely. Sphalerite. Check of main sample shows concentration on lid

9GB - Middlecaps. Attempted concentration caps. Probably district work. No gold-possible 1 tiny micro piece. Lots of red-cherry-red mineral micro chips stuck to caps.

Looked at gold Samples from 9B & 9G - Sample 6-1 mostly crystalline. Has included black to blue Black mineral in many pieces. ALL Sample have some pieces pock marked with Squamish amber-coloured translucent mineral enclosed. also some with chipped smooth whitish Flat long rectangular inclusions. Micro probe of selected Samples could give clue to origin Crystalline Nature of small pieces could mean little sorting out with micro probe checked high con value F1-1, F3-9, F7-1 all showed included amber nodules, and blue black mineral. Consider titanite for amber mineral. Also "Cuprite".

Also under microscope (Mineralized) Possible Diamond & Pyrope Garnet!

It is noted that 98 field noted shows only F3-9, F7-1, F1-1 Pan Concentrate ICP in 98. Check on other samples run as follow-up. Were these others sent?

April 23:

Check non-magnetics on 99-3. 99-3 next to Bedrock - estimated 3' to 5' above BR. 9' from top - deeper due to hill slope. Removed earlier 20 Medium flakes, 40 fine flakes & numerous fs. Two gold types - brassy & dark coppery. Found very little (2 pieces) microscopic gold. Could be more at depth?

Recheck of 98-10 - One silvery piece of gold showed possible gradation to gold - from electrum - and possibly some

Recheck 99-3 Non Magnetic Conc left after panning & gold removal. A few pieces +40 gold. Blue Black mineral could be Tourmaline. Also olivine, quartz, garnet. Possible diamond or clear Tourmaline. (Possible example diamond drilling? If the

shape is diamond - there are many of them
Also 99-3 may have the diamond
shape. Gold here contains amber
grains which could be garnet
and/or augite - Also the blue-
black mineral.

Pit 100-2 ft - Also shows amber
grains & black-blue mineral enclosed
Both 99-3 and 100-2 are not
flattened and are very coarse - Not
travelled far. Gold runs down to
microscopic size. Good place to
check Box and pan gons for gold
value.

Apr 23 -
99-10 Noted possible chalcocite,
Bornite, chalcopyrite, Amber Garnet,
Magnetite, pyrite, olivine, quartz,
Hematite, Hornblende, larger pyrite
seems to have some micro-
amber garnet attached along
cleavage interceptions clear to
pink tourmaline

4 June - trip to HP Barite Deposit on Highway. About KM 170. from Dease Lake corner.
Through narrow switch backs.
First Checked outcrops adjacent to hill side of road. 1st outcrops coming back into canyon. Small water flow and culvert. Selected samples of limestone outcrops based on relative weight and whiteness, crystal Mostly grey limestone. Some breccia - smells of sulfur.
Selected Sample HP060401R - includes some of breccia. HP060402R - taken at ridge at K.M 178. 400'
Sample HP060403R at 177.2 KM
check of MAP 1526A - Geology - Ogilvie River - shows samples from two possible assemblages. DO - & CDR.
From location on map DO is most likely. CDR is a ~~lower and Devonian and carboniferous~~ Cambrian to Devonian (Upper Cambrian to Lower Devonian) - Road River Formation: shale, black graptolitic; limestone, medium crystalline, dark grey; wacke; includes Lateral equivalents of Michelle Formation. DO - (Lower and Middle Devonian) Ogilvie

Formation: Limestone; fine grained, dark grey and black; massive; may includes equivalents of ~~Gas~~ Gossage Formation

5 June: Beginning South end of outcrop. At location HP inspecting map shows Barite Exposures. Sample HP060501R taken from 1st outcrop about 40' up slope - 4'X 25' Exposed. Some weight. Dense grey limey. HP 060502R taken from float at base of talus along 1st 75' of ridge. Judged by weight. HP060503R - ~~Wh~~ White heavier sample taken below second rock exposure 200' North and about 150' up slope. HP060504R is taken from next outcrop. HP060505R is grab float by weight along roadway 200' along below about outcrop

2nd outcrop is for sample is 4' by 15' exposed.

06 June – 4 Grizzly Bears in area. stayed close to road. Up the Southern Ridge to base barite exposure on HP Prospect Map. 1st exposure top of Ridge 75' x 5' Expose. Chip sampled random along face, HP060602R. Picked up pure white barite float up to 4" x 4" x 2" below outcrop, continues South up ridge. Float samples taken as traced up ridge. About 50' up ridge Bearing 140° to outcrop is claim post #1 claim # YA10506. HP060603R is easily fractured heavy Segment 1' foot wide on major outcrop seen from road about 30' North of claim Post. Altered [illegible] rock

6" X 12" and extends down is heavy and shows some pyrite. About 50' up ridge from post. Sample HP060604R. Flaged. HP060605R is white barite with crystal structure and 1" x 1". Float found along ridge 200' N from claim post. HP060606R - Flint - Calcite - but heavy (barite) half way down ridge talus 450' North of claim post

Check rough water displacement method on Sp Gr. White Mineral ran about 3.12 in one sample and 2.67 in another. Probably mostly calcite with some barite included

7 June - French Gulch - Ralph and Al. Brought 4 Wheeler around to go over ridge line above target pups. Followed cat trail till went down to ~~work~~ Indian. Cat back up ridge toward French Gulch and came out on top of ridge just downstream of 1st target pup. Sparse cover over bedrock. One outcrop showed quartz-biotic gneiss / schist - with well defined ~~schistosity~~ schistosity. Quartz lense showing about 1½" x 2". No mineralization. Float shows most of ridge to be much of same, but ~~gr~~ grades into granite gneiss schist downstream along ridge. Could not sample gulchs from 4 Wheeler - Will have to come up - get dropped off and meet transport on bottom of target pups. Followed Ridge down as far as 2nd (unsampled) gulch between target gulches. Too steep - need tracks for to proceed. Area criss-crossed by blade-ing cat tracks. Sample ~~H0607~~ FG060705 taken down 12" into soil above bedrock

just as ridge starts down toward 2nd pup. ~~4 ABB~~ 2 bags taken. Also took Large pan sized bag to pan for heavies. Sample # FG060702P. And another pan Sample FG060703P 50' down ridge in 6" of soil but including decomposing ~~shist bedrock~~ schist bedrock. On down stream slope overlooking 1st pup, soil Sample 12" down — FG060704S. Soil sample from very apex and center of 1st pup as slope begins down toward. FG060705S. Down 12". Quartz float kicks up sporatically throughout ridge. FG060706S - not to bedrock as frozen ground meet at 12". I.T also is within 400' of last sample (soil & quartz) taken last year on the ridge line.

June 8: Ralph and I up French gulch to recheck target streams against map. Also checked out area along Upper Eldorado and Nugget Gulch for possible access roads. Checked exposed gravels on left limit side of Eldorado took samples FG060803S and FG060803P from depression partially filled with water and catching fine run off material. FG060801P was panned and showed no visible gold. Samples FG060805PS and FG060804PS were taken from a dump of fines below coarse tails from an old box. White gravel was run through the box. Dump about 600' North of 01P and closer to the rim. A pan showed one fine flake of gold. Pans were half pan Sized.

9 June - Ralph & I up to FG - to set access to top of ridge. Came across old Cat workings near Dave Johnsen's ground. Sample 060901P and 060902S taken at downstream limit of working. 060903P and 060904S taken 600' feet upstream of working. Approximately ½ way up slope above Eldorado airport. Outcrop shows well banded schist and abundant quartz, hedrock, located old cat veining road to Nugget gulch coming out near the right limit mouth of Eldorado. too steep for 4 wheeler because of drain.

14-15 June; Small Creek of the 11 ppm Silver. 14- travel to Creek - 15 Noted 75' across steep canyon just above narrow stream delta. Sample ~~SS~~ SS061501S - ~~Soil~~ taken about 40' up canyon - Stream Sed taken. Rock at base seems to be lenses of high Quartz gneiss schist, with lenses of quartz stringers in schist. About 3' layer of quartzite - with fine specs of cerisclite? Cerisite also in quartz stringers and Gneiss? About 100' of outcrop showing. SS061502R is composite of quartzite, gneiss and quartz from bottom face. About 2' of well banded gneiss grades into high mica schist with included quartz leasing. Structure dips 40°E strikes 070°T (Approximate) Sample SS061503P is pan conc from Silt Location. SS061504R Sample of banded gneiss 60' up slope. Sample SS061505RS ~~(Soil Not taken)~~. @ 17 feet upstream. Hard to take because of coarse gravel - angular & amount of organics, taken under water mat. Stream only 4' wide and

steep gradient. SS061501S - Mostly course & many not much good.
SS061505R Same site as above
Soil - Float - high schistosity schist with pink garnet. Large Boulder. About 200' upstream - canyon opens up to the West.
Indication of possible fault line running N-S along creek.
About 50' vertical cliff on East.
Cliff rock is fine banded gneiss/schist with little mineralization, shows inclusions that could be fine gold - or organic - but wide spread throughout rock. Sample SS061507R. Ledge looks like reef sticking out with widening out after about 75 feet. Where it widens out, At near creek level - creek diverts around felsic intrusive that has some dark square mineralization - possibly galena. Large piece SS061510R. Same place as 07R - Sample SS061508S (*) taken. Again difficult to get.
Sample SS061509R is large grab sample from reef at

outcrop

SS061510R. ~~Reef~~ extends. 75' Wide By about 50'. may be colluvial stuff. 100' up stream from the 4- (Above outcrop is at 4 with dry steep stream course) Silt Sample SS061511S. Easier of take silt. Rock type in stream bed is a felsic gneiss. SS061512P Pan 50' upstream of silt. SS061513R Chip samples from light felsic float same area, 25' upstream felsic float. Reddish tint to banding, possible small grains of galena. SS061514R. SS061515S taken 50' upstream of SS0615 11S. ~~Caged~~ SS061515S. Sample ~~to~~ hard to get. Had to take small amounts for next 30' upstream SS061516R - 35' above SS061515S flag. Rock type quartzite to banded gneiss. Strong sulfur smell when first broken. SS061517R Quartz for same area. Sulfur smell ~~SS061603R.~~

16 June: Ralph & I up Target silver creek. Still no sign of any previous activity. On Ridge to East approximately above last sample in creek. 150' above creek float from above. Fine grained mafic. Probably metamorphic light amphibolite. Chip sample SS061601R. SS061602R Quartz Boulder 1'x2' 100 up stream same level on slope. Area talus slope covered by moss. Sporatic quartz Area now float of banded gneiss and pinkish quartzite SS061603R - Quartzite - similar to that found on hills (highest point of creek we got to yesterday.) Sulfur Smell - magnetite. About 75' further along ridge. (This corrects sample 1R location *). Bleed on float - about 100' covered by quartz. Still have quartz & float. Float on West Bank above stream. Quartzite - rusty gossan - some magnetite. SS061604R. About 1.25 mile upstream. About 150' Above (upstream). SS061605R Quartzite, Sparse pyrite (rusted) or galena or magnetite

possible speck of visible gold/pyrite
Same slide rock continues on
at least 100 ft. Two chips added at
+100 feet - All shows possible
visible gold/pyrite. 100' further upstream
is talus slope of same material -
runs to creek 4'x3'x2' Boulders.
Some possible visible gold/pyrite
A few specs of tiny possible
chalcopyrite. Runs 75' wide.
SS061606R from talus. SS061607R
good chip sample from talus.
Highest peak on East Ridge
083°T just as creek Turns
westward - (To talus Slope)
SS061608 - slit just above
talus slope. SS061609R -
talus slope continues for
200 yds - grads in and out
to gneiss/schist. At 200 yds
found this sample - argillite
leached soft heavy granular
rock with possible minute
chalcopyrite. Possible in place
exposure 4'x10'. SS061610 SOIL
Soil in ant Hill near top of ridge
approximately above talus West.
East ridge top bears 083°T. Went to

near top of ridge above juncture of two tributaries. Half way down Banded schist outcrops bearing 101° degrees to topmost East ridge. Elevation approximately 2500' from map. Two fifty feet exposed along strike up to 35' face exposed. Strike 150° T. Dip 15° E Cap Rock is high quartz, mica gneiss/schist strong foliation with quartz nodules. ~~Overlay~~ 5' cross section exposed. Overlays possible calcareous, grainy fine quartzite, with rust staining & soft. Sample SS061611R. Vuggy. Corrections - SS061611R is top of large nodule 3' x 3' exposed on vertical face. Grades to 10' quartzite/gneiss and schist. Sample SS061612R shows gneiss & schist chips. 5' of schist overlays. Larger of talus ~~title~~ material of sample 061607R. High sulfur smell. Possible visible gold or chalcopyrite 20' vertical exposed. Could be same exposure as up valley at 07R. SS061613R chip across

various face. SS061614R - Grab sample from face.

17 June - transit to Dawson. Samples SS061701R - 2' vertical dense mafic dike along fault - 150' exposed - very straight. Intersected between mafics. ~~SS061702 NOT~~ ~~Sample~~ Far side Yukon just up from Reindeer Creek. SS061702R 600' down river - Mafic intrusion - looks like surrounding mafics but bedding may be cooling structure - possible pipe. SS061703R opposite Dredge River - Mafic intrusive possible pipe?

June 19th - Went over SS Samples with microscope. Very High Quartz - but no visible gold. 2 hours.

June 22nd - Went over drying FG Samples with microscope - No fine gold seen. Still too damp. 2 hours. 21 June talked to John Gould on fine gold Potential in Klondike and French Gulch 1 hr.

June 23rd:

Researched McConnel (1906) on values in Klondike to get ideas on fine gold deposit areas. McConnel found that transport was a function of grade & bedrock. Steep grades and smooth bedrock traces far. Shallow grade & course bedrock transports little. Greatest accumulation occured on creeks with 150' per mile grade or less. Even when degrading it does not move far, staying in nearly place with drops of 150 to 300 feet. Sometimes dropping further than going down the creek. This has implications for transport model in braided channels and the 50 mile. Original gold channel should stay defined as stream meanders & down cuts. The magnetics, however, may tend to wander further downstream. Therefore one could find highest grade in channel just above highest magnetic gradient. Also important observation

by McConnel is that light colored
flaggy HARD schists form rock riffles
and gold moves steady lower in
riffles in pregeacal flow. Subsequently
a major reason gold moves little
further downstream during
degrading. Some low purphyritic
rock when shattered as often is.
(This has implications for 50
mile at this rock type. Gold
would not be scoured in stream
bed but would be concentrated
and held in place.) Soft schists
offer little resistance to gold.
McConnel also says White Channel
is not sorted by constituents and
is uniform throughout. Major
implications for fine gold here.
McConnel seems to be saying that
the White Channel at Adams, Gold
Hill and other is buried with
115' of yellow gravel to the South.
This could mean major Gravel still
in place. If they can pay enough
fine gold to pay for their removal -
the area could prove to be one
of the world's greatest gold
reserves. This should be checked!

Also cannot be a parallel here - with Pre Reid glaciation. Perhaps White Channel also underlies site. It is noted that stretch about discovery claim including Monk & Skookum Extremely Rich. Has implications for Chechako Hill Fraser. [check with John Gould on Source 36 Mil yard WC, 35 Mil Yard KG → 75 Million Yards at .0167 oz. But if White Channel only → .0333. Also try again to get Australia Hill Data - Contact owner for permission. talk to Dave Farley. Look at adjacent ground owners first. Should target all available White Channel on East Side. Selected tailings (incl dredge tailings) and settling ponds in Valley - (Also to give room to process - selected White channel across valley - potential settling - dump areas behind Australia Hill. * Cannot begin with Dave Johnson tailings - Where would fine gold be - settling pond?. Ray - Skaps High Grade - inventory rest - option/sell off rest.. Dr Reference to McConnel & Sawring - again the Largely scoured areas of the 50 Mile

creek seen, as well as Cheryl & Ralph Creek where constrained by canyon would still have their gold. Indeed concentration level would be greater the further down into bedrock penetrated [This would not be true for any zones of smooth bedrock which would be essentially scoured of gold]. This further emphasizes the importance of a class four in 50 Mile. It would be a good sluicing target to go over some of the frozen lower creek area but may not be possible if thawed. This emphasizes the importance of may work at start of transition zone - and perhaps the lower level left limit pup on the unnamed pup below Cheryl Creek. Also emphasizes shaft follow-up. A short may line in low level ~~benches~~ gravels between Ralph & Cheryl Creeks.

2 July: trip to FG with Ralph. Check trenchs behind Jim Archibalds. Pick up ~~from~~ 4 wheeler for 50 Mile.

3 July: Helicopter transport to 50 Mile. overfly map target areas to assess best sediment sample plan.

9 July: Layout of mag grid, gradient grid to best capture hardrock and placer potentials

11 July: Several hours laying out sampling plan. Plotted circular highs against located in field actual proximity to claims. Sampling of circular high to be AC Creek and two small drainages below it. Also surface of failed cat pit just outside of Camp. Sampling of high trending elongated ~~NW~~ NE SE from Box 50 will include 2nd small pup for circular high and next (3rd) pup from this. Sampling of high along ridge to SW of upper Ral claims will be from about Ral 17 - to Ral 27.

Gravier soils along lower Neal Creek taken in 99 will be cross checked.

13 July: Spent a few hours plotting the best potential claim corners to maximize benefit from highs and claim grouping / gradient work. Plotting expansion of NIC claims to 77 NIC 17, and new claims group of 31 claims up Ralph Creek.

14 July: Discussed placement of discovery claims. Best co-discovery on AL Creek, and co-discovery and possibly two more on Ralph creek. Al can also place one for Cheryl and one for Carrie on Cheryl Creek and AL Creek to be recorded with 17 days - After I get out in person by me. We can do the same for upper Cheryl Creek if we get the chance.

15 July: Continue planning - Block light all Sed areas and area along road and stream from camp to Rat Creek. Run Box 46-50 long at 200 M for Mag Highs For Shooting Follow-up - Shoot place on circular high & two earlier mag highs - and large aerial mag high to access hard rock potentials.

16. July: Block out of sediments samples based on location of three highs & 1999 Sed work (not at -260) 16 Samples on Rat Creek. 4 Silts and top of old pit on AC Creek. 4 Silts on next right limit pup. 4 Silts on next left limit pup. 3 Silts on next left limit pup. 1 Silt on next left limit pup. 34 Silts total. +Significant in place hard rock as occurs.

17 July - Claim map review shows that Lago and Lato claims near Monica Claims and Over Mt Hart have lapsed. Should consider to file key high / lows ground into Monica Claims for target Evaluation / Prospecting Grants

6 July - 7 August

AC Rudis 2001 Field Notes (1)

6 July: Stage Materials - Mobilization for 50 Mile. Equipment, Groceries, 4 wheelers etc.

7. July: Stage Materials - Mobilization - Assemble team -

8. July: Fly to 50 Mile. Ralph & Johnathan take two trucks to stage at ridge above 50 Mile. 60 Mile unerossable - stage from 5 mile. Helicopter transfer second two 4 wheelers. Set up camp.

9. July: Start placing Mag grid. Continue camp setup. Pan sample local (composite gravel at surface). Concentrated pan to ~~about 30 to one~~. Sample FM070901P. Abundant pyrope coloured garnet noted. Small microscopic gold. A few clear crystals with diamond like structure. this sample for garnet and heavy mineral identification B.C.

9 July: * to accomplish. Stake over circular high. Extend NIC claims to West to Join Axe Claims. Extend Claims up Rat Creek High.

Ralph's trip out - Record new claims to allow assessment work thereafter.

Lease 00305 - ? Helicopter drop of two guys to do $3,000 worth of line. OR Restake. Weds. Refrig - FG Sample (take 2 buckets & shovel) - Restake - Pre Cut and Label Stakes. Look at Ralph Creek or do nothing on lease - Drop

Sept. - Stake discovery + 2 on all intersecting - Record & then drill for assessment. Or Drill following year.

Soil Grid: Over Circular High Plume.

Overall recon needed as can not Sample muskeg without power - auger.

Kelly (cont.). Latrine Pan Sample 2.5' down. Latrine 100 yds South of Camp. FM070902P. FM070903S Soil/Silt from bottom of latrine. 2 Bags. Site ~~below~~ behind Wall tent. Two feet down. 25 yards SSW of camp kitchen. FM070904S (2). Cooler site. ~~Feet~~ 3.5 feet down and back into 5 bank / bench just behind gas tanks. FM070905S(2). FM070906S is about a 1/3 bucket from cooler pit with +½" screened off (⅓ screened off). FM070906S. Placing sideline Alpha & I [redacted] and ~~[redacted]~~ SOE noted lines coming together indicating Compass Local deviation: off by SOE at 100S Compass lead to line shift of about 15° to East for more local deviation.

(4)

10 July Reading of Station
00. 63 50.691 N 140° 30.443 W
El 2097. Site of #1 Post Chr #8 & 10
#2 Post Chr #8 & 9 NIC 1-4 Claim Posts
Chr Claim Post visible from
BL 250E. leg 1 of Baseline East
138° T

Progress: Brush Cut Station line
9 July AL 050E: 300 S 246 N ✓
9 July Marcus ——————————
9 July Ralph ~~00~~ 300 S 200 ✓
10 July Marcus 320 S 250 N -
320 S 50 N -
320 S 50 N -
10 July AL ~~250~~ E 300 S ~~310 S~~ 180 N ✓
10 July Ralph (270 S 210 N
270 S 220 N ✓
~~220 S~~
10 July Marcus 350 S N ✓
Measure at 500E BL at 092E
Deviation at 250E?

Notes to Shawn • Watch ΦΦ for E-W versus

- Compass broke and gave wrong readings. There is one bad line at 500E. Its bearing is 66 about 200° and it crosses the next line East. Its beginning is marked with Blue + Blue + Blue Tap.

- Line ~~2000E~~ 2100E was skipped - Goes ~~1950E~~ 2050E then ~~2000E~~ 2150E, i.e. 2150E is actually 2100E and it goes -50 down the line.

- Line ΦΦ (cc) on AC line may not be flagged, and should be corrected by new.

11 July CAMP POSITION 63° 50. 3N 140° 30.215W
EVEU 2431 ⑥

Base line - Claudes work

9 July } ~~Camp~~ 1KM
10 July }

First 150M (500') line at 318°T ①
Next from 150M to 750 Meters at 320°T ②
Offset at 750M 100M South and
Continue at 320°T. ③

About 350.-400M from offset change in road to 125°T,
Stopped at Bar 49/50 Post for about 1800M.
[Noted Chr 5/4 is about 6 meters from line]
{Bear wanders here with no flagging}

Aug 5 (continued)

Dam 1-2 Post 1

GPS 63° 51.675 N

140° 35.753 W

Dam 3-4 Post 1

63° 51.339 N

140° 35.151 W

Ralph Creek Sampling

FM080501SS ✓ - East tribe - Fair to Good - Some mud, organics

FM080501R ✓ - Just above Fork - outcrop. 150 - 160 W - ultramafic perhaps near schist contact 1" x 5" quartz. No pyrite - Non-Magnetic - Visible gold in ultra??

FM080502SS ✓ - Good - Dry silt pool, Upper Ralph Crk. Near Rel 25-26

63° 52.143 N 140° 36.180 W

FM080503MS ✓ - Moss Mat Sample - Upper Ralph Crk near Rel 30.

63° 52.383 N

140° 36.935 W

-35

FM080502R - Rock from creek just 50 m below FM080503MS.
Float Near L2000W - 50S.
White limestone Gleart - Pyrite - Probably from Schaan zone - Perhaps under Kutcho.

FM080504SS - Good Silt from Side pup - L1920W - 90S

FM080505SS - Fair-Good. Silt from Side Pup - L1680W - 120S

FM080506SS - Good Silt from Upper Polych Ck. L1680W - 90S

FM080507SS - Fair-Good Silt. From dry pup - Near FM080502SS.

FM080508SS - Poor Silt from major pup
Silt, mud, organics, sand.
63° 52.033N
140° 35.737W
New L880W 140S

FM08050955 - Good Silt from upper Ralph Creek - 63° 52.032
140° 35.366
Near L600N 50S

FM08050355 - Rock - greenish ultramafic?
Near FM08050855
(considerable Jadeite - No visible cpyrite
Magnetic - Sparse Magnetite

(One operator reported large boulder of jadeite on East Fork (Near Fork) of Ralph Creek - Also considerable float.

5 Aug Samples continued (Out of Sequence)
- FM08051055 ✓ (Claude or Marcus)
Silt Sample from West branch Ralph Creek - L3120 120W.

- FM08051155 (C ~~or A~~) Silt
2600N 50W Ralph crk
- FM08051255 ✓ 600N 50W
- FM08051355 ✓ 200N 20W
- FM08051455 ✓ 1000N 50W

(10)

FM0805155S ✓ - 1400N 275W

FM0805165S ✓ - 1800N 100W

16 July

Monday: Scenting May BC East for problems and information. Checked first two drainages after camp up ~~etc~~ mapped contact area and along 50 Mile camp. No sampling possible as its Muskeg of whole cut. Cat only into muck. At 1800E line BC goes into (down to) 50 Mile Valley for a short stretch. There is a muskeg dry cut/ ravine running there will some soil exposed at side - but high organics. Sample taken three feet down into ravine FM071601S. Soil sampling in muskeg largely will have to be done by a powered Auger. Check of AC Creek for rock type showed large 2'x2' boulder about 2500' up. Piece taken off shows it to be very ~~&~~ light coloured but also very little quartz. Sample FM071602R. ~~FM071601S~~ FM071601S is 2nd below camp X.

17 July: Camp evaluation of FM071602R indicates a possible intrusive olivine Gabro - although very light on olivine and ultramafics and may have about 10-20% garnet. About 2% Mica (pothicotite) and 1 to 2% Corundum of various colours including ruby. Ruby (var) up to 1 mm in size and mostly visible. Possibly some lesser amount of garnet. One cube of galena. This bears research and follow-up.

Sample from ~~third~~ drainage below Composite, FM071701S. Two additional Samples from Ae Creek. FM071603S at about 2500' up-stream (at AC 1 & 2 post) and FM071604S about 4000' upstream.

18 July: Continued field examination of possible ruby. Found another piece of igneous float containing the redish mineral. This close to outcrop about 100 M away, and 20' up the stream bank. i.e. Not a part of the immediate ~~[illegible]~~ materials brought down as creek. This supports the possibility that this lighter igneous material is related to the target circular high behind the camp. Mag lines extend far enough out to cover about 300 M to center of high, and planned mag line on new discovery placer claim may also intersect giving further data. The sample is FM071802R. It has even less olivine than FM071602R and so indicates a possible syenite rather than a harder-line olivine gabbro as noted above. Both types have corundum? as accidentals. All sample held show limited zoning transition to a coarser pegmatite texture. In one sample at FM071602R location a straight

line zoning from medium grained to fine pegmatitic occurs. About 40% of the mass at the contact is a grey brown mineral with ~~poorly~~ poorly formed crystal faces. possibly fragment of a hexagonal structure. Some of this is feldspar - but most is possible corrundum. Apparent cleavage faces appear more as flat fracture planes, and it is harder than quartz. This Sample is FM0071603R1. Probable Half way up AC 2 basin. Corrundum is up to 2cm long. A ~~P~~ pan of FM.0709065, Cedar Samples was taken from screened material AC material run. Two pans taken one ~~Also~~ mostly concentrated to about 1lb. And the other to about ½lb. One of the large heavies was a grey brown 1.5 cm partially formed, possibly hexagonal crystal. It is probably corundum as it is considerable harder than Quartz. Several other less ~~hard~~ well formed pebles testing for.

hardness also probable corundum. It is significant that these larger crystals are in company with small, up to 1 or 2 mm, well formed, clear, locally abundant, crystals of red to pink to clear material. These resemble garnet - and may be distorted garnet, but a close (20×) examination show them to be hexagonal rather than hexoctahedral. Colours also vary to a clear ruby red, and I classify them as probably ruby/corundum. A few, less apparent, greasy lustered clearish mineral pieces found with poorly developed crystal structure resembling diamond. Could be sapphire - or remotely possible diamond. Small at less than 1 mm, the possibility of diamond should not be dismissed, as syenites sometimes form the most differentiated part of gabbroic plutons. A couple dozen red crystals were separated from the FM070906SPan sample. These

Are designated FM 071802P. The probable corrundem pebbles are included under FM071802P - but in seperate enclosed bag. the ~~the~~ red crystal samples include the two small sapphire / deiamind bits. Samples discussed above taken in the vicinity of FM071602R, are designated as FM071603R. The one sound cooler pan cons is given as FM071803P and the V&CB. given as FM071804P. An outcrop showing gossan at 30 M Below Post #2 AC #2. It is a ~~pr~~ probable ~~andesite~~, ? possibly related to the local circular high. It has quartz emplacement along fractures - some showing well defined quartz crystals in voids up to 1cm. the rock is well fractured and has up to 1% pyrite - mostly concentrated close to tight fractures - but also extended sporatically Through rock Sample FM071703R. It helps confirm

that circular high is not related to (part of) 50 Mile Batholith. Outcrop is 15' up from sample (float). Test of copper (MM red mineral against quartz - scratched quartz without impacting it. Sample FM071805S taken from seasonally dry drainage gulch that shows on topo map but not claim map. Drainage cuts through ridge outcrop sampled in 89 as #66 and #67 banded gneiss. Probably 50 Mile Batholith. Showed poor ICP and 78 ppb Au - at -85 mesh. Sample FM071902R is from pegmatite boulder 3400' above camp.

18 July Ralph found a high gossan outcrop in the vicinity of Bon 3350, BL 5000 on the left limit of the 50 Mile. It is 75' exposed wide up and down stream; and open top and bottom. The top is 30' up from 50 Mile valley gravel and is truncated by 6' of beach gravel on top. Ode 1-6 was located. The showing is about 75' of altered quartz with shist on either side. Topographic ridge

may be

across. 50 M.C on on both may (19)
indicate continuance across valley. May work
(OISE Claims 1-6 South to North.)
should indicate if so. Quartz highly altered
and fractured across the face. Fracture voids
often filled by well formed quartz crystals
up to 2cm. This appears to be a later
injection and is quite barren. E.
(continued after 14 July)

14 July: Post 1 AL one Codiscovery,
63° 50.632N
140° 30.817W,
El 2115
Boom of cut BL up stream Corse

Post 2 AL two. Codiscovery
63° 50.314N
140° 31.573W
El 2111

left limit outcrop on AL Creek
Bank of creek 63° 50.435N
140° 31.496W el 2138.

may be

This at the location of FM071703R a possible andesite.
This is possible andesite? —
Same general type but sparse to no pyrite. Appears to be tip of dike ~~cut~~ cutting across schist/gneiss. Lays in a pyramid trending about 020°T. About 6' exposed with contacts visible on sides. Extends to about 6' in width. Sample FM071901R is grab sample across face. No visible pyrite found. FM071902R is coarser red garnet wallsample from 3000' up stream. FM071903R is red garnet rock samples taken from various boulders along creek. It is noted that ~~be~~ even though they a hard to break with a hammer along ~~so~~ exterior, the interior crumbles ~~as~~ in the hand across the feldspar. Probably means did not come that far. As get closer to camp, these boulders are more prevalent - and are general

Sample [illegible]
may be [illegible]

lighter, smoother and more odd shaped than the others.

~~Arsenopyrite?~~ or Pyrite?

18 July (continued) About 15' on each end of 75 feet is apparent transition zone to Schist that is largely highly fractured quartz with high porosity, vuggy with clusters of small quartz crystals with tiny ~~sporatic arsenopyrite~~ crystals. Given as ~~Sample~~ FM071805R. A few pieces show up to a considerable dissemination of ~~arseno~~pyrite on fresh surfaces with a 20× lens.

Sample FM071805R(H) to be held.

Sample FM071806R ave hand selected from center of 75' for (pyrite) arsenopyrite content. ~~Arsenopyrite~~ Fairly heavy in places. FM071806R (H) to be held. One Sample for Ken Gallantos. Sample FM071807R is a grab sample representative of the middle 50' of the exposure. FM071807R (H) is held and shows example of some of the quartz crystal fill-ins.

Sample FM071808R is representative of what may be near.

of the center 15' of the exposure. It is a more massive quartz, (vuggy) with fairly well disseminated arsenopyrite ~~of~~ up to about 1%. Sample FM071808R(H) is to be held. Sample FM071809R is a grab sample taken across the 75' width of the exposure. FM071809R(H) to be held are examples that show ~~arsen~~opyrite in the schist - and that the quartz crystallization - while visually barren may ~~no~~ have accompanied the ~~arsen~~opyrite which clusters along its edges. A few pieces of Sphalerite were noted. It was also noted that about claim 25 - the tributary on the right limit, about 100' up from the mouth is an old stream channel for that tributary.

20 July - Continued examination of OCe samples. Coordinated placement of Map Grid.

May be new.

21 July. Continued work on grid in preparation for Bill Lekange in tomorrow. Checked around camp site for the "Sphene" red crystal boulders. Found several in short check, all with varying degree of crystal. One showed barrel shaped crystals on surface up to 1 mm - eroding out from boulders. Checks of some fragments shows source mine. arsenopyrite and pyrite. One chip from area grading into coarser grained shows cluster of 10 grey to milky and clear crystals within 10 x 10 mm. Ahout 3 mm in size with one at 4 mm. Two or three of the samples showed a ghost-like reflection that could give star-sheen/line "star" if cut right. Sample of few chips including this 30 x 15 mm chip with the cluster is given at FH07 2001R. Sphene Sample This would probably be a good sample to send Bb. Extracted over a dozen small pieces directly from rock. Looks as

way he related

very much like garnet - but still 6 sided and barrel shaped. Largest piece. 2mm.

22 July: Ran control lines for grid. Checked aerial maps for red crystal source. Small magnetic is actually 36 km away, but in a different drainage. On a AL creek, about 3km up is an apparent old stream channel dominated by a light light topography. this should be checked out. It is noted that the projected NIC 14-17 would fall at least 1.5 km short of the stream channel. See aerial photos A 27660 35R 36. 1' x 9" x 5" Boulder on road near camp - Smooth worn mafic - but angular. Magnetic - Sporatic pyrite ~~arsenopyrite~~ - spec of sphalerite. Mostly Olivine - Sample FM07201R. Looks like a Norite, Lherzolite, peridotite, check of minerals needed as may be related to Mag High.

(23 July) Sample FM072201R checked closely with 20x. Rock is very fine grained and no individual minerals could be detected with a 10x. There is a general dissemination of pyrite - Note: May all be magnetite. Magnetite is probably rather than either pyrite, & chalcopyrite or arsenopyrite - perhaps all three. There is some pyrrhotite. There is sparse red garnet. There is possible chromite and/or magnetite. No Micas were apparent. Sparse feldspars present. A wild guess would be a rock type of Iherzolite, garnet peridotite, or the beginning of a Kimberlite. Both the Iherzolite and Garnet Peridotites are associated with Kimberlite pipes. Iherzolite is associated with nickel chromium and platinum deposits. Garnet Peridotite can have diamonds. Could also be pyroxenite. The significance of the pyrite may be important - or not. In any case there would be an early gradational version of the rock type - perhaps with early cooling. Sample FM072202B is Source Kimberlite

Weds. 25 July

** Note: Review Grant Lowell's paper for pit description - blowangle.

Picked up a dk green ish rock float breccia up near helo pad. One very similar with magnetite but shows flow lines along which magnetite is emplaced. Also magnetite emplacement in fractures up to 3mm wide and several CM long. Sample FM072501R and FM072502B. Possible also Hema Fite.

Also white fibers radiating crystal.

Sample FM072503R - contains two similar samples of 6 coat Sample FM072504R is a grab sample from the face of the 4' Quartz vein exposed on the right limit 50 Mile at ~~At Lake~~ Below Ralph Creek Grades into Schist - held to check with Black light. (26 July) A 12" x 4" x 4" boulder from same place ~~was~~ at stream near camp is an ultramafic. Non magnetic. Appearance of a dunite, and if so, is an indicator of (associate of) platinum and chrome. Sample FM072602R & 072603B.

Thurs. 26 July

Float at campsite across from schist peninsula between camp, Al Creek at 50 Mile. Probably from that schist which appears identical. This schist sampled in 99 with not spectacular ~~mega~~ results. At time, concentrated on quartz inclusions. This piece has no quartz inclusions and complex folded along schistosity - has strong smell of sulfur on breaking. Contains pyrite along schistosity. Also possible chalcopyrite. Some of the mineralization looks like free gold - no crystal structure and nearly the right color - but if so there is a great deal of it in one fraction under 20 x. Sample FM 072601R is the sample - and it should be run - with sample piece held back. Sample 072602R - (Bornite?) is also much lighter than magnetite ultramafics float found earlier. This sample the only one found on gravel bar of campsite which ultramafic

is dominated by granitics mentioned above. It is, however, in direct line below ridge leader, to high and is coarse and angular - nothing touched for. Pitted appearance possibly from Chromite - Sparse isometric black crystals visible - possible brown streak.

Sample from [right limit last creek (tribs) in the grid. Soil about 2' down the ravine above the stream.

FM0726035. Silt from the stream also taken, but lost on way back to camp.

(28)

(28 July: Weigh Creek composite
Sample. One Full bucket
two feet above bedrock - a
little into bedrock. Bucket
weight 31lbs. Screened @ 6
+½" + ½" (44lbs) - 3lbs = 41lbs.
-½" 28 - 3 = 25lbs 40 - 3 = 37
25+37 = (62lbs) Samples
FM 072801A & FM 072801B
(Split to equal weights)

30 July: FM 073001R – Gossan on ridge at end of line at 3000E. Just over ridge lip is a very high mag reading running along ridge. Samples are Quartz and quartzite in a ledge that may lie under the magnetic material (rock). Placer gravel is also above ridge and defines the edge of a broad bench. The contact between bedrock and the gravel is showing in some places and should be sampled. FM 073002R is another sample, and *FM 073003S is a soil from 3' down. This soil should be tested for bedrock but also run over table to check for visible placer gold. Ralph's notes refer. Rock Samples at 3100E 170S. Soil 5M Back from outcrop near bedrock in alluvial Gravels. L30+00 170S GPS 63° 49.862N 140° 27.413W. This should be tabled for +150 and tested for fine gold. At L33+00 100S Creek and Outcrop Sampled in 99. Quartzite & Gneiss on West & Gneiss on East Outcrop of Ravine. Escarpment on South Side grades in and out of gneiss & quartzite. escarpment to and of

L 2550E 240S Outcrops of gneiss & Quartzite.

~~L 2550E~~ There is a caver bench along 50 M.Le between L1900 & L1800 on Centre Line. Bryn back 50-70 Metres from Creek.

FM073005P - FM073008P are pans cons from the AC Grid on AC Creek. They are 200 M apart beginning at 00S and ending at ~~00~~ 800S.

(A Soil FM073004S was taken at AC Grid - Check with Ralph)

The purpose here is to check for Tungsten source - and the high mag areas showing on the 00E Grid. Also note the malfunction of the mag near AC Creek. Ralph's notes refer. Cursory look through plastic showed Scheelite in #'s 5 & 6, nothing apparent in 7 & 8 - although closer examination may show it.

FM 073009R is a fragment from a quartz decomposing boulder near the top of the grid. It shows a large bright blue crystal - probably Scheelite - and numerous whitish crystals possibly scheelite. Also unidentified goldish crystals. Seems a bit light for scheelite ore, though. At Grid 700S 0W

31 July - Placed DOM 1&2 Claims on Mag High Above Ralph Creek. Post 1 DOM 1&2 - GPS 63° 51.675 N 140 35.753 W (3243 el). Soil Sample FM073104S taken here. Post #2 DOM 3&4 at 63° 51.339 N & 140° 35.151 W. Sample FM073103 Rock is a green ultramafic with some mineral staining - in place approaching Mag high above Ralph Creek. GPS 63 51.862 N 140 35.266 W (el 2384). FM073101SS from East trib of Ralph Crk. FM073102SS from West trib mouth of Ralph Creek * Green mafics - highly stained Noted at Pit 97-1 2. L2050E 40N and 97-2 L2350E 30S. FM073103R

August
~~July~~ 1 - Ralph out in evening.
Placed ode 7-22 claims as extension
of ode claims and joining the NIC claims
Begin at grid line 4550 and extend
to Cor 1/ Bar 54 Post at about 1330.
Odd number toward River. Called Ken
Gallambos and got approval for Samuel
hand trenching, stripping, sampling
instead of Winter program. Continued
to analyze Grid contour maps and
work with data. Set sample program
& extended lines to cover possible
NE East trending volcanic belt.
This shows on the mag maps as a
circular high - and it roughly
parallels elongated extended
highs below Chevy Creek and above
Ralph Creek (on right limit ridge.)
Detail show it to be line of three
larger and two smaller cones - with
possible pipes enclosed. The largest
is about 50 meters in diameter at
a magnetic core and about 200 meters
in diameter overall. The smaller
es are about 25 m at the core and 100

overall. The smaller are appear to be in an East West line at about 250M long. Samples FM080101R and FM080210255 are from a high porous (rusted) bluff at 5200E, 10N. The rock is the like the predominant shist in the area. No pyritization or other minerals noted.

31 July Sample *FM073103R is considerably mineralized. It is serpentinized with some faces showing at a jadeite looking mineral. ~~Earth~~ Black mineral aggregates could be magnetite with perhaps some chromite. Under 20x several areas show sparse platinum like mineral "nuggets". FM073103R4 is held. It is magnetic and possibly brecciated - (or pheocrystic)

Aug 2. Extended lines 750 800 850 900 950 1000 from 250 N & out to 450M to cover potential pipe-Mag showing. Set up sampling in plumes of the three main potential pipes. These were at 800E 200, 850E 200 (Bullseye), 850E 280, 950E 280, 500E, 250 (Bullseye), 600E 250, 500E 150, and 700E 225. Two holes were attempted with shovel. One (Not sure) went 1.5 feet down to perma frost and stayed in muck. One went 2 feet down and hit permafrost in a mixture of muck and stream sediment. Sample of soil, FM08002015, was taken and may or may not be a good one. It is estimated that thawed ground may be nearest at the ridge south at about 850-900 meters - too far out to sample these anomalies. An auger drill will be required.

~~- Checked area of Mag high on end~~

Aug 3. targeted high circular mag Target at 00 E 160 - 180 M N. This close behind camp. Close check with magnetometer shows it to be probably local and about 10 M in diameter about a one meter core - unless it is at depth. Hand pitted about 1 yard material over the core and found no magnetic rocks in alluvium. Ran about 1 in place yard over long term to get sample of heavies. took a soil sample at the water table. No indication of bedrock at water table. Soil Sample FH080301S..

· Checked area of mag high extending from 00 N to 200 N on 150 E. Checked bedrock were exposed at fifty mile cut at 220 N. Contact over high quartz schist. It noted that this high goes through or near pits 98-04 and 98 05. 98-04 was 16' deep and 98-05 6' deep. The first showeded 1.1 grain / yard gold

and the second 0.6 grain/yard. Long tom concentrates should still be held. Grant Jewry may have done - or will be doing - a heavy mineral identification on material from pit 98-04 - and has a description in his report. Outcrops at ridge showed no apparent magnetic rocks - the schist however contains pyrite/chalcopyrite similar to that across from Camp. FM080306R. ← 150E 200N
More on the Heppner Mary Pit above. E we reached bedrock - a decomposed schist. And sample FM080301S contains some of it. Unless there is a very large amount of magnetite in the sluice box cons, It is possible that the high is from pyritized schist. The operator reported a rusty zone just at or above bedrock (which was under water). This may correspond to rusty schist directly North across Alder Creek from Camp. FM072601R' is a sample of the rusted schist here - About 5 Meters from end of 00E, 200N. → Pit location on 00E 150N. System trends 292° T and appears to be sub-vertical with N dip

about 290°T. Sample FM080307R is a random chip sample across about a 10' face exposed. Contains pyrite - probably chalcopyrite finely disseminated and visible under a 20x. It is nonmagnetic. Pan concentrate from Long Tom is given as Sample FM080304P ✓ (Pit 1 At Creek) (~~FM080403 not analyzed~~). It shows All abundant magnetite, and even more abundant red garnet? which obscures gold. Considerable gold - ~~sh~~ some flakes to 2 mm but thin. May or may not weigh up. Need also to check for scheelite with black light.

Sample FM080303B55 ✓ is a silt around Rel 24 @ 1430W ΦΦN. Sample FM080305S5 ✓ is a silt around Rel 17 @ ~~2400~~ 290W ΦΦN Operator noted Major compass deviations at 1320W 20N Rel Creek. 10° variation. Will take silt at spot

Aug 04:

SOM.

Pit 98-14 63° 50.785N L200W - 150N
140° 30.393W
Sample FM08040025

Pit 98-13 63° 50.787N
140° 30.579W
L 200W - 80N

Pit 98-6 63° 50.782N
140° 30.602W
L 200W - 40N

Pit 98-10 63° 50.740N
140° 30.677W
L 200W - 50S

Pit 98-7 63° 50.865N
140° 30.089W
L650W 300N

Pit 98-8 63° 50.848N
140° 31.155W
L650W - 250N

Pit 98-15 63° 50.764 N UTM 522257E
140° 31.580W 7079575N
L800W ~~100S~~ FM080701S

98-12 63° 50.745N
140° 31.591W
L800W - 150S

98-11 63° 50.732N
1400 31.173W
500W 350S

98-9 63° 50.711 N
140° 31.047W
425W 300S
Sample FM080403S

98-4 FM 080405S
98-5 FM 080404S
98-16
98-17

Ralph Creek - West Silt Samples.

FM 080406SS 2040W 55S ✓

FM 080407SS 1320W 20N ✓

└ MAG Area - No Reading
Possible with Compass

5 Aug (p.t 1 AC Crk)

A check of Pan Con FM080304 PT All under black light shows some Scheelite - but not as much as expected from Samples. There was, however, a 1mm possible Ferberite crystal, and one crystal of Ferberite? that was 5mm long. The gold is flat, but not hammered - having both rough and angular around the edges. No large chunks of scheelite were noted. There was about 10% magnetite, with some very course - one ~~chunk~~ crystal at 5mm.

float Pegmatite

Float pegmatite was checked. Scheelite occurs in a few pieces - one an appreciable ammount + with golden

zones - possibly of powellite.
Most scheelite was in the pegmatites.
A representative sample of the various
fragments are given as FM080307R.

At the ~~Western~~ Eastern side of the ridge
of the 50 Mile Range which Al
Creek flows, there is an exposed
contact between gravel and bedrock.
The exposure is downtrend from the
schist face across from Camp shown
as sample FM080302R; and grab sample
to be a continuation ~~with~~ which ties
to FM080306R. IT is capped, however
by an intruding possibly andesite?
dike, about 4' width exposed and
cutting perpendicular across the schist at a deep
dip. The schist is well cooked at the
contact, with high gossan, but shows
no visible pyrite. The andesite? has
sparse - but well disseminated
pyrite. This contact is at 50E 240N +10M
~~Scan~~ ~~And~~ Andesite Grab Sample across
face FM080517R. The Andesite is
Nonmagnetic. Grab sample of ~~Gneiss~~ Schist FM080518R

A1

6 Aug, Checked Hi Mag target Pit South of camp to see if mag diminished by excavation: Still there - below the schist bedrock. Continued to dig down into water. Pieces of schist more distinct - very black (graphitic?) and schistose. Operator retrieved 1½" by 6" piece of Quartz in place in the bed-rock. It was nearly vertically implaced and was approximately upstream. (about 248°T). Operator picked a small (2mm) nugget from the box. It is chunky (not flattened) rough, angular - and has not come far. Quartz and fragment of schist taken as Brock ~~0608-F4~~ FM080601 ~~P1~~ P1. About ¾ yard run - much of it boulders - Pan showed coarse, chunky but mostly flattened gold. May or may not weigh up. Pulled heavies into some chunks massive pyrite up to 3 mm, a couple dozen large pieces of probable ferberite up to 7 mm, several pieces of corundum including some with color. Sample FM080602 ~~P1~~ P1. ✓

Aug 6 - Mag Highs Noted at
L240 35-40E toe of Hill
L280 35-40E toe of Hill
L680 10 E of Crk (60-65W)

FM08060155 - Good Silt from major pup
L1760N 200W
UTM 521249E 7081329N

FM08060255 - Good silt from Small Pup
L1480N 150W
UTM 521457E 7081111N

FM08060355 - Fair Silt Mud off Moss.
L920N 170W UTM 521762E
7080645N

FM08060645 - Soil from Ridge of rusted cliff at Mouth of Ralph Crk.
UTM 522276E 7079993N

FM08060555 - Soil from Pit 100-6 -
"unfilled" Dug 4 ft in bottom -
total depth about 8 to 9 ft. Broken
rock with glacier boulders.

No Sample taken from Here in 99
Good target.

Pit UTM's

Pit 100-5 - 521972E 7080541N
L680N 30W

Pit 100-4 522050E 7080440N
L560N 30W

Pit 100-6 522165E 7080326N
L400N BC ϕ

Pit 100-3 522193E 7080226N
L320N 30W

Pit 100-2 - 522267E 7080171N
L240N BC ϕ

Pit 100-1 - 522323E 7080076N
L120N BC ϕ

FM 080606S - Soil ϕ on May High

1.5' deep Between L 240 40E and
L 280 40E at
toe of Hill

FM080607S✓ - Surface Sample from
pit 100-1.

Aug. Pit 2 At Creek - located
20N of Flag 00E 50N

P2 outcrop of high schistose micaceous
schist - Strike 308° T Dip
80° S. 9" quartz vein runs
with the schistosity. Highly
schistosic - clear white quartz.
Appears the same type, and on
strike with quartz vein that
crosses pit 2 and bottom of
pit 6 same trend heading off
to Ralph Creek. May tie with
System that crosses at Ralph
Creek at same trend - Ralph creek
in line with strike from here. Quartz
Sample FM080701 P2.✓

indicates that [illegible]

3rd possible pit at 50W 25-40N.
Schist here same strike and dip as P2 - which would put this about 40 M up dip of P2. Possible 4th pit just up from (P1) At P1 Claim Half way between L200W 2205 and L150W 2 S, NO exposed bedrock, but shattered blocky schist - low schistosity - at base. Check of (1/2 yard) Sample pit 2 only a few specks of microscopic gold shows ~~considerable fine gold~~. (It is noted that samples from Pit 1 showed little fine gold - and none when speed of water/sluice slowed down. The gold pans in the middle of the pan - ~~it is~~ because of the % garnet & heavies including magnetite. We thought lack of fine gold recovery for run 2 on Pit 1 was due to too little slope on the box - adjusted it, and got fine gold. All this to say that Pit 1 may be under represented in fine gold.). Apon of the concentrates showed very, very little magnetite. This and the slope of the gold probably indicates that the rock ledge above

06 Aug - (Repeat) Back at AC Creek Mouth outcrop at FM080517R (L50E 240N +10M) it was noted that another exposure of the high quartz schist about 4M up dip (S) of the contact. This trends as does the schist across AC Creek and resembles it - probably is a continuation Sample (~~chip~~) (grab) across 4' exposed is at FM080608R. It contains sparsely disseminated pyrite. Good silt available just down from the outcrop at 0S0E 240N in the non-06 stream bed. Silt taken as FM080609SS and Sediment just below it as FM080610S. Andesite dike from vicinity of Pit 3. Located at 100W 40N. Three feet exposed trending 090° dipping 45°S Sample FM080611R. Non Magnetic - very sparse fine pyrite under 20x. *Note: While these are called andesites for convenience - they are an ultramafic fine to medium grained with very little apparent quartz and feldspar and

abundant alumina. (P2)
07 August - Pit 2 showed about 9" exposure of dense fractured black - low shist material - blobby Schist - possibly graphitic. Sample taken as FM80702P2 - Continued back ledge above which sample was taken was probably scoured and then covered over with slide material including some later deposit of gravel. There is, however, considerable garnet including red corrundum? mixed in. Sample FM80703P2 is the pan con of pit two.

Note: Re-examination of Pan Cons from pit one show that some unidentified ~~and~~ mineral may be Columbite? - tantalite? - also some of the mineral tentatively identified as Ferberite may be columbite - Tantalite? or Ilmenite.

Nexo.

(P4) (48)

07 Aug (cont) Potential Pit 4 between claim line 200W 270S and 50W 180S (just above PIAC1). Shows good bedrock. Bedrock sample taken at 4' is basically high quartz schist fragments in talc-like decomposed material. Sample taken as FM080701P4. In place Sediment Sample taken 3' down into pit given as FM080702P4.

- Small float of dull grey gossaned rock - showed to be a felsic breccia near Pit 3 considerably pyritized - with mostly pyrite, but also chalcopyrite, sphalerite, and probably zincite and sparse galena. Near float of pyritized limestone. Sample FM0805 02R, and about 50M below Moss Sample FM080503M, and silt 80M down FM080504SS. This Sample FM080701R. Location near L2000W - 50S. Also a silt at 2040W 55S. Sample FM080701R(H) to be held.

(50)

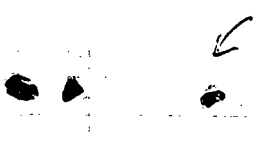
8 Aug - Panned concentrate from Pit 3. Extracted Heavies - A few small flat pieces of gold. Largest (by far) below.

Pit 3

Largest Pieces of gold from Pit 1. are below

Pit 1.

Pit 3



? Ferberite
Tantalite
- columbite-
Ilmenite

Pit 3 Concentrates:
FM80801P3

50 M.G. Grid
100W 20SN

x Minor to Moderate Black Sands - Moderate to minor Garnet, two pieces gold seen. Gold ~~flatter~~ flat and coats on heavies.

Gold very angular and did not come ~~from~~. Three soft pieces of Actinolite (fibrous) 2" to 2½" - were caught in box and are included in Sample. These can not be far from their origin. This Sample did not go to bedrock, and is probably two To three feet above it.

P3

PonCon FM80703P2 ✓ was evaluated further. there was very little magnetite, and a few specs of microscopic gold. the bottom of the pan is covered with tiny grains of chlorite.

P2

P2-1-2 - Possible - Columbite - Ilmenite?

Outcrop - Schist in line with camp - on 52 Mile 10' thick
Sluicing - Bottom grey fines
Sampled - fine disseminated pyrite
3 feet sluicing to bottom of gravel
Sample FM08880101R. ~~Dup~~
Strike 290°T / Dip 42° North.
Grid location: ~~0808~~ 20W & 100W 25ON chn
Not Magnetic.

PcT3 was mislocated 10 Meters South. P3
It is about 2x2x4 asphalt on a slope - and is an estimated 3 feet above bedrock. About 1 yard was taken out. Orientation of the boulders shows the gravel to be laid down by the 52 M.C. - ie from west to East. This has the implication that At Creek may be relatively juvenile in the course. Aerial photos several KMS up At Creek shows an abandoned stream course. It could be that a hidden - or buried stream channel South to North flows into the 52 mile - or that

it has been obliderated over time. This should be looked for in the Mag Data. Pit one, however, rock orientation show a definite course coming from TW 203°T. This compares with the current course of from 241°T. 203°T takes it directly into the bank - and may indicate a previous channel. As magnetite is present - as well as gold in the pit 1, an older AC wash channel could be indicated (P1) running Southward along baseline ΦΦE - ?E. The gold being from a close source - could mean that the highs - volcanic bursts - or related alterations are a source of the gold - and perhaps the Tungsten - Scheelite - or they may be separate. Concerning Pit 3 - minor to moderate black sands - with some gold 3 feet above bedrock could support the association of gold and magnetite in the SOM.Le valley.

(T.)

8 Aug: 1958 old Pit #6 on Ralph Creek was inadvertantly left uncovered and has a depth of 4'-6'
Sample taken +3' on 7' (FM080802S)
Shafting to get to bedrock
went down 4', for to (11') AE 11' took Sed FM080802S
~~5'~~ took more. About 11'
from Bottom of that shaft - AE about 10', the gravel changes from large boulders to ~~medium~~ medium sized cobbles and pebbles - with considerable fine grained alluvials. Sample FM080802S - Sediment was taken at 11' from surface. 10% Partial Bucket (1 yard) Sample was run on material from the pit floor (~~about~~ 10% (7' to 11')
It's cons are FM080802P.V A ~~10~~ 5 Bucket at 11'-11.5'.
Sample was run from ~~about 10' to 11.5'~~ It's cons are given as FM080901P.V Water was hit at about 11'. It seems to be run off-melt from permafrost - and not water table. Shafting to continue, with bailing, down to bedrock if possible.
Pan of 1 yard ~~F~~ show flat gold - 2 about 2 mm - 8 or or medium flakes - and many small and fs. ~~H~~ Hems magnetite.
enough....

Note. In 1989 Report - Grant Mooney reported Pit #5, Cheryl Creek to have 1% Heavies 40% magnetite, 20% garnet, 10% hematite, 10% hornblende, ~~10%~~ ~~apatite~~, 8% enstatite, 2% cassiterite, 1% apatite, and 1% sphene - These may or may not reflected in the 50 Mile Valley and Ralph Creek - but should be considered.

Hematite - Streak dark cherry red not found in AC Creek metallic Heavies.

Magnetite - Lesser amount in volume with more garnet, and also large number of olivine granules.

~~Hornblende~~ Garnet - Almandine Garnets present - big colour and trapezohedron crystals. But mostly clear with adamantine ~~luster~~ and vitreous luster. ~~At~~ Could be some pyrope garnet from ultramafics. Garnets found in float boulders - which also contain corundum. Corundum probably - identified by colour, hardness, and hexagonal crystal form. Some of these very small

ones - 1 mm - are dark ruby red and are possibly micro-rubies. Large 2cm - corrundum crystal found - but no large clear red ones. Hornblende Some of the heavies not identified may be hornblende - but not the majority. Percentage lower. Apatite ~~Sphene~~ Much of the smaller heavy grains may be apatite - ~~Hornblende~~ Enstatite there is probably some enstatite in unidentified minerals - but does not have metallic luster. Cassiterite - there may be a few crystals of cassiterite present. Sphene -

Note: need to do follow-up - Thin Sections? - an ultramafics to see ~~if~~ how and if eclogite in origin - from subduction zone (low temp) or anhydrous regional metamorphism. Need to distinguish and determine if from upper mantle as in kimberlites?

Unidentified heavies could include; Feberite/hewbonite, columbite/tantalite, or Illemite. Perhaps all three.

FM080803P (6-7-11') ✓ showed Six-sided garnet (Corundum) - some small pieces ruby-red. Also have actinolite, 10 MM - possible considerite. + regular garnet - 8 sided

9 Aug - Pit 100-6 was run down from 11' to 13' to bedrock - All work in water. A few inches only of bedrock taken. ½ yard sample run. Sample FM080804P ✓ is its Con. A Sediment Sample was also taken at 12-13' ✓. Its taken as FM080902S. ✓

Note: Check of 3mm chunky nugget from 100-6 in Sediments just above bedrock, shows included tiny black cubes - resembles magnetite - and a larger piece of pyrite. See below

from under water: [illegible]

Note: Recheck of Pit #3 shows stream flow from about 260°T - which means it could have come from either AC Creek or the 50 Mile Creek. A one yard sample 15' from Pit #3 - but on bedrock has been prepared. Check of Pit #2 shows no alignment of boulders - confirming that it was slide rock over the bedrock.

100-6

Sample PM080804P ✓ - ~~5 feet~~ 1/2 yard Sample Bucket and 11'-13' (5 feet above bedrock) Sample panned down. Full set of heavies and large amount of magnetite. ~~two~~ ~~largest~~ larger flakes here. two medium, several small, and many of same left in sample. Most all garnet like pieces ~~but~~ hexagonal System. 1/2 yard

~~5 foot Bucket~~
11 feet - 13 feet
100-6 Gold

← 7' to 11'

11' to 13'

A few inches of bedrock taken. Shoveled sample from under water. Taken 9 Aug

9 Aug: (Pit 100-6) Largest Nugget! from Bottom (2 feet above bedrock) and all the gold Bucket ~~one spoon~~ and men from 11' ~~wash~~ ~~one or two of bedrock station.~~ ~~All~~ ~~with shovel~~ Under water, but buried out - so probably low. Nugget includes tiny magnetite crystals, and moderate pyrite enclosed. Pit Sample FM080901P ✓ taken 8 Aug.

Reversed
Pan
5 Bucket Sample

11' 5 Bucket Sample. Gold

Note: Research nepheline syenite pegmatites. Rare Metals - tantalum - Yttrium, Niobium, Rubidium?

Check Samples for tantalum, Yttrium, Niobium, Rubidium.

Sample: FM080903SS ✓ is a silt from East Smitty tributary on the grid # 52 M.E ~~E~~ 45050 ~~0~~N

Note: the heavies from Bucket Sample FM080801R need close examination. They include materials not previously noted on Ac Creek or in this pit (as-6. looks like beryl - maybe a clear yellow micro beryl - Corundum - ruby - possibly ~~gro~~ uvarovite (instead of the beryl - other minerals. ~~and~~ these should be professionally identified.

Pit 4 is at/near point where magnetometer doesn't work because of high gradient - (high to low. It is over the low portion - bedrock is a rusted schist with pyritization. Bedrock includes quartz vein which has anetinolite attached. ~~Part~~ Concentrate from absent / just above bedrock and I foot into decomposed bedrock. ~~A bag is closeby ~~as~~~~ Sample FM081001R is bedrock - low enough not to be decomposed.

Sample FM081002R is quartz from bedrock that is encased in serpentinized schist with some actinolite. The pit is over a cow. Sample FM081003S (2 Bags) is a sediment taken in gravel (Creek Bottom) at near the lowest point. Gradient transition a major high at this point goes to over 700. The sample is from a 2' deep hand pit right on the ~~100~~ 100 W line (~~between 70 &~~ directly ~~West~~ East 5M of the Pit. (Between 100W 30N and 20N. Boulders in pit ~~#3~~ 4 show stream ~~flow~~ flow from about 270° T Dip & strike of schist at pit is S 319° Dip 70° S. Pan Cons FM081001P show 11 small flakes - numerous metallic luster crystals - Abundant magnetite - Red Corundum.

Dark enough at 11:30 for black light recon. Shawn & I - up roads - up Creek beds. Sparse Finds.

11 ~~Aug~~

FM0811 02R float from ridge across from camp - Heavy Pyrite - taken near shower.

FM0811 01R Black Light float from camp site - test samples. Cobble Size.

FM0811 04R(H) Interesting pink felsic float from camp.

FM0811 05R(H) Interesting dark schist - well defined actinolite.

FM0811 03(R)(H) Could have chips sent out and (H) - this piece held for Gallagher & Rock / mineral identification and sampling / Breccia float from camp. (Same as FM0,72502B)

FM0804 01S - Unknown pit # Sediment Sample

FM08110&6R - Shawn's high gradient - magnetometer busting outcrops from 50 Mile 5750 Brawsley - Dark mafic No visible sulphides - but high Sulfur order - even without breaking. Rare Platinum - Mineral - Rock I.D. FM08110&6R (11) held for Gallamores and mineral/ rock identifications. Slightly Radioactive.

Oct 2 - NAL Identity sample FM08110&2R - Float from Ridge across from camp. Au +30 - NAL 080611R - Au+30+plat. Held for B.C. - FM080611R(14)

Fax - Oct 20th about from 867-668-4968 Justin Arrange Fax.

Special Process -

* Nickel Sulphide - inhibits platinum - Identify Minerals - Risby - Platinum 60 mile - Tom Morgan

(64)

Oct(2) FM080611R
FM072201R
FM081106R

} NAL Special Buccers to help with Nickel Substrate Problem.

Scott	23 Jan	11:00 AM →	7:00 PM
	24 Jan	1230 →	9:30 PM
	25 Jan	1200 →	9:00
	26 Jan	6:30 →	9:00
	27 Mon	12:00 →	8:00
	28 Tues		?
	29 Wed.	- 12 - 6	?
	30 Thurs.	3-4 hours	

AC Rudes 2001

6 July - 11 August - Sample/Grid Locations (1)

FM0709018 - At Campsite

FM0709028 - At Latrine. Between 00E and 50E at 130N

FM0709038S - At Latrine

FM0709048 - Behind Wall Tent. 00E 160N

FM0709058 & FM0709068. Leeler Site Between 00E & 50E @ 200N. [Screened ½"

- Compass Deviation - Between 100S and 110S on both line 00W and 050W Two different compasses deviate 15° to the East.

- Magnetometer Blank Out - (Overload). On line 100W 35S at Creek Edge Magnetometer "blanked-out" twice and no reading could be taken.

- Station 00 - 63° 50.691N 140° 30.443W (Also location of NIC 1-4 & Chr 9/10)

• Camp Position 63° 50.753N 140° 30.245W
Between 050E 190N and 000E 200N

FM071801R 050E, 150N Floats above road near latrine.

FM071601S 1800E 30N - AL
small ravine shown as 2nd rib down from camp (AL Creek)

FM071602R ~~Between 000W & 50W~~ at 2505 ~~550S~~ In AL Creek Grid in Creek

FM071701S From third rib below AL Creek. 2300E 0N.

FM071603S ~~Between 000W & 50W~~ at ~~550S.~~ In AL Creek Grid.
250S in Creek.

FM071604S In AL Creek Grid.
750S in Creek.

FM071802P - taken from FM070906P.S.

FM071603R 250S in Creek AC Creek Grid.

FM071803P & FM071803 at Cooler Site. Between 00 & 50E 200N.

FM071703R - In AC Creek Left limit
~~FM071902R~~ FM071901R at ≈750S. 63° 50.435N, 140° 31.496W

FM071805S - 2900E 0N.
(Dyke Marinyo bearing to 99 Samples #66 & 67 from banded gneiss.

FM071902R - In AlCreek at 400S.

Ralphi's 75' Exposure 5000E - 80N on rim of Creek. (FM071805R, FM071806R FM071807R, FM071808R, FM071809R

FM071902R - In AC Creek at 400S

FM072001R - Camp Site -

FM072201R = 50E 190N
FM072202B

FM071903R - Halfway up AC 2 claim.

FM07 2501R
FM07 2502B } 150E 170N - helo Pit.
FM07 2503R

FM07 2504R 1600W 0N

FM07 2601R
FM07 2602R } - Composite across Al
FM07 2603B

Creek at Altered Schist face

FM07 2603S - Sample from last Creek Mt. limit in the Grid 5950W 0N

FM07 28(1) A(2) - Cheryl Creek Campsite at Station 00 (Cheryl Creek Grid zero).

FM07 3001R
FM07 3002R } Soil Samples South of 3000E at what would be about 200S.
FM07 3003 Soil 3100E 170S -

FM07 3004 Soil 4300+00 170S 63° 49.862N 140° 27.413W

FM07 3005 PanCon ACGrid 50W 60N

FM07 3006 PanCon 30 M West AC#1 P1

FM07 3007 PanCon ACGrid 20M N AC#2 P1

FM07 3008 PanCon AC Grid 20M below AC#2 P2

(5)

FM073009R ✓ AC Grid 2005 GW

Larger, More Southern Volcanic Cone Location -

Next Largest Volcanic Cone Location -

Next Largest Cone Location - end of East west line with 2nd Largest

FM080101R & FM08010255 from bluff at 5200E, 10N.

FM07310155 - East trib Rapids Crk.

FM07310255 - West trib Rapids Crk.

FM073103R - GPS 63° 51.862N 140° 35.266 W.

DOM ½ P1 GPS 63° 51.675N 140° 35.753W
Dom 3/4 P2 GPS 63° 51.339 N 140° 35.151 W

FM073104S GPS 63° 51.675 N 140° 35.753W

Sampled Pits

~~98-16~~	AL00	150W	frozen	
98-17	AL00	150W	frozen	
98-4	150E	230N	63°50.737N	140°30.189W
? 98-5	~~AL00~~ 200E	150N	63°50.686N	140°30.138W
? 98-3	1350E	50W	63°50.231N	140°29.222W
98-1	1700E	ϕN	63°50.128N	140°28.856W
98-2	1750E	ϕN	63°50.128N	140°28.856W
			6350.63N	
97-12	AC's Pond	1950E	70S	140 20.559W
97-1	2050E	40N	63°50.62N	140 28 432W
97-2	2350E	30S	63°50.002N	140 28.126W
97-3	2550E	ϕϕN	63°45.997N	140 28.009W

L2275E (PI) GPS 63°50.024N
140° 28.243 W

Pits 97-1 & 97-2 have considerable Green Mafics ~~one~~ heavy with some mineralization Could be from Small Southern drainage. ~~1700E ϕN & 1750E ϕN.~~ Pit 97-3 has mafics - but less of them

L1800 - L1900 Centerline drops to Lower bench and runs 50-70M to Creek (50M)

(7)

FM0803015 - 00E 150N ✓
FM0803028 - 00E 200N ✓
FM0803038SS - 1430W 0N ✓ Rel
FM0803048 - 00E 150N ✓
FM0803055S - 250W 0N ✓ Rel

① Major Compass deviation (10°) at Rel Creek @ 1320W 20N.
00E 50 M.C. Grid

4Aug: For lost Base Data -
Baseline done from 3700 To 5550 on data File.

Also on 04 5600E - 5750E (Regular Lines)

FM0804065S 2040W 55S Rel ✓

FM0804075S 1320W 20N Rel ✓
MAG AREA - No Reading Possible with Compass

Pit 98-14 63° 50.785N L100W - 150N
140° 30.393W
↓
Sample FM 0804 025

Pit 98-13 63° 50.787N
140° 30.579W
L 200W - 80N

Pit 98-6 63° 50.782N
140° 30.602W
L 200W - 40N

Pit 98-10 63° 50.740N
140° 30.677W
L 200W 50S

Pit 98-7 63° 50.865N
140° 30.089W
L 650W 300N

Pit 98-8 63° 50.848N
140° 31.155W
L 650W 250N

(9)

Pit 98-5 63° 50.764 N UTM 522257E
140° 31.580W 7079575 W
L800W 100S FM0807015

Pit 98-12 63° 50.745N
140 31.591W
L800W -150S

Pit 98-11 63° 50.732 N
140° 31.173W
500W 350S

Pit 98-9 63° 50.711 N
140° 31.047W
425W 300S
↓
Sample FM0804035

Pit 98-4 FM 0804055
Pit 98-5 FM 0804045

FM080306R 150E 220N Ridge above 50 Mile ~~150N 280E~~ ~~Near camp~~

FM080307R - Various Float from camp Creek and Lower AC Creek.

Dam 1-2 P1 63° 51.675N
140° 35.753W

Dam 3-4 P1 63° 51.339N
140° 35.151W

FM08050155 ✓ East trib into Lower Ralph Lake.
≈ 1840N ΦE.

FM08050IR ✓ - Outcrop - Above Fork 13C Φ -160W

FM08050255 ✓ Near Rel 25-26 63°53.143N
140° 36.180W = Above 1600W 100S

FM08050315 ✓ Near Rel 30 63° 52.383N
140° 36.935W @ 2040W @ 75

FM08050215 ✓ - 50M below FM08050315
Float L 2000W 50S

FM08050455 ✓ Side Pup L1920W - 90S

FM08050555 ✓ Side Pup L1680W - 120S

FM08050655 ✓ Upper Ralph Silt L1680W - 90S

FM08050755 ✓ From Big Pup Near
FM08050255

FM08050855 ✓ Major Pup - Poor -
L 880W 140S 63° 52.033N
140° 35.737W

FM08050955 ✓ - From Upper Ralph - Good.
L600N 50S 63° 52.032N
140° 35.366W

FM08050 3R ✓ - Rock greenish ultramafic
Dyke Near FM08050855
L880 140S.

* Grav Data Correction: Ralph
L1880N - there are two
one needs to be 1800

FM08051055 ✓	- Silt	L3120	120W.	Road cut
FM08051155 ✓	- Silt	2600N	50W	
FM08051255 ✓	- Silt	600N	50W	
FM08051355 ✓	- Silt	200N	20W	
FM08051455 ✓	- Silt	1000N	50W	
FM08051555 ✓	- Silt	1400N	275W	

FM0805165S - L1800N 1050W
FM0805178R - L50E 240N +10M
FM0805188R - L50E 240N +10M
FM0806088R - 150E 240N
FM0806095S - 050E 2400N 50M.Ck
FM0806105 - 050E 240N "
FM0807012P2 - Quartz from P2 20N of Flag ΦΦE 50N.
Pit 2 at Creek 20N of Flag ΦΦE 50N
FM0807022P2 - Gneiss? from P2.

Aug 6 - Mag Highs Noted AT
L240 35-40E toe of Hill
L280 35-40E toe of Hill
L680 10E of Crk. (60-65W)
FM0806015S - Good Silt from major pup
1760N 200W
UTM 521245E 7081329N
FM0806025S - Good Silt from small pup L1480N 150W
UTM 521457E 7081111N

FM0806035S - Fair Silt - Mod L920N 170W
UTM 521762E 7080645N

(13)

FM080604S ✓ - Soil - Ridge of Rusted Cliff at Ralph Wk Mon Rt.
UTM 522276E 7079993N

FM080605S ✓ - Soil pmn P100-6 - Unfilled

Pit UTM's:

Pit 100-5 521972E 7080541N
L680N 30W

Pit 100-4 522050E 7080440N
L560N 30W

Pit 100-6 522165E 7080326N
L400N BC ϕ

Pit 100-3 522193E 7080226N
L320N 30W

Pit 100-2 522267E 7080171N
L240N BC ϕ

Pit 100-1 522323E 7080076N
L120N BC ϕ

FM080606S ✓ Soil Con on Mag High between L240 40E & L280 40E at Fox & 1441.

FM080607S ✓ - Sediment from Surface Pit 100-1

FM080703P2 ✓ - Pan Con of Pit 2: ~~Between L200W 220S and~~ ~~L1500~~ 00+E 50W (+20W)

FM080701P2 ✓ - Quartz from Pit 2.
FM080701P4 - See Pit 4 ✓
FM080702P4 - See Pit 4 ✓
Pit 4 half-way between flags for clay line 200W 270S and 50W 180S.

FM080701R ✓ - Digitized bracken - Float near Rd 30 + 4 Cache. ✓

Pit 3 50 Mile Grid 100W 20N
FM080801P3 ✓ 100W 20N

FM080603P1 ✓ - Pan Con of Long Fm Concentrate FM080304P (At Pit 1)

(15)

FM080801R — 20N of 100W 25ON clw
FM080802S ~~FM~~ Soil ?' (11' from surface)
FM080803P ~~-74'~~ Pit 100-6 Ralph Creek
FM080804P ~~FM080804P~~ -11' 5 Bucket (Full Bucket) FM080901P
~~FM080901P~~ - 11'-13' ½ yard
FM080902S — 12'-13' Soil

FM080903SS - 50 Mile 1505O ONV
FM081001R — Pit 4 BR

FM80702P2 - Burley Graphite Shist BR Pit 2.
Pit 4 Pan Conc —
FM081003S - Pit 4 mag area — creek
Sample between 100W 30N & 20N
5 M directly East of Pit 4.

FM081102R - Float from Ridge across from Camp - AC Creek
FM081101R - Black fgpt float from Camp

FM081106R Shawn's magnetometer -
FM081106R(H) hunting anomaly contacts
from 50 Mile 5750 Anomaly
Slightly Radioactive