Van Krichbaum

SUMMARY OF PROSPECTING ACTIVITY

Name ULTRAMAFIC PROJECT Reference Number ED90-1 /90032

The areas chosen for the Ultramafic Project are dismembered allochthanous ophiolite sheets of ultramafic rocks Because many of these had a probability of serpentinization and potential contacts with limestones or other Calcium rich rocks, it was judged that they had potential for the formation of nephrite jade. This was the primary target mineral for the prospecting season. 105, A, B, G, H

Secondary targets were PGE (platinum group element) potential in the ultramafic rocks, a high gold anomaly from regional geochemical reconnaissance studies in map 105 H, and a promising gold location identified by Yukon G.S.C staff in 105 H also. Additionaliy, chromite and other mineral potential within ultramafic rocks was to be investigated.

SUMMARY OF PROSPECTING ACTIVITY

DAILY REPORTS (diary)

	Project Area/Name	Date	Prospecting Days	Work Performed
Day 1	Watson Lake	July 11, 1990	1	Got supplies for field work
Day 2	Hasselburg Lake	July 18	1	Dropped off Argo for return
Day 3	Entire project area	July 19	1	Helicopter survey, sampling
Day 4	Black Lake	July 20	1	Shoreline prospecting
Day 5	Black Lake	July 21	1	Stream sediment sampling
Day 6	Simpson Range	July 22	1	Stream rock + gossan samples
Day 7	Simpson Range	July 23	1	Examined talus + stream beds
Day 8	Simpson Range	July 24	1	Stream seds. + gossan samples
Day 9	Simpson Range	July 25	1	Stream seds. + talus examined
Day 10	Simpson Range	July 26	1	Lake shore rock examined
Day 11	Simpson Range	July 27	1	Mnt. ridge + gossan samples
Day 12	Bills Claim area	July 28	1	Mnt ridge + talus samples
Day 13	Bills Claim area	July 29	1	Glacial drift, stream seds. sampled
Day 14	Hasselburg Lake	July 30	1	Stream rock examined
Day 15	Hasselburg Lake	July 31	1	Argo out to Campbell Hwy.
Day 16	Miner's Junction	Aug. 2	1	Prepared samples for assay
Day 17	Watson Lake	Aug. 3	1	Purchased supplies - Sent assays
Day 18	Miner's Junction	Aug. 7	1	Packed supplies, maps, Argo
Day 19	Campbell Range	Aug. 8	1	Rock + Stream sed. samples
Day 20	Campbell Range	Aug. 9	1	Rock + Stream sed. samples
Day 21	Campbell Range	Aug. 10	1	Rock + Stream sed. samples
Day 22	Campbell Range	Aug. 11	1	Rock + stream sed. samples
Day 23	Campbell Range	Aug. 12	1	Stream sediments sampled
Day 24	Simpson Lake	Aug. 17	1	Rock + Soil samples taken
Day 25	Hasselburg Lake	Aug. 24	1	Drift rock collected
Day 26	Hasselburg Lake	Aug. 25	1	Argo trail, stream sed. Samples
Day 27	Hasselburg Lake	Aug. 26	1	Beach gravels collected
Day 28	Campbell Range	Aug. 27	1	Glacial till rock samples
Day 29	Campbell Range	Aug. 28	1	Examined serpentine exposure

A. SUMMARY OF PROSPECTING ACTIVITY

DAILY REPORTS (diary)

	Project Area/Name	Date	Prospecting Days	Work Performed
Day 30	Campbell Range	Aug. 29	1	Glacial drift examined
Day 31	Campbell Range	Aug. 30	1	Stream sed's. & float taken
Day 32	Francis River	Aug. 31	1	River boulder samples
Day 33	Miner's Junction	Sept. 2	1	Prepared samples for assay
Day 34	Watson Lake	Sept. 3	1	Sent samples for assay
Day 35				
Day 36				
Day 37				
Day 38				
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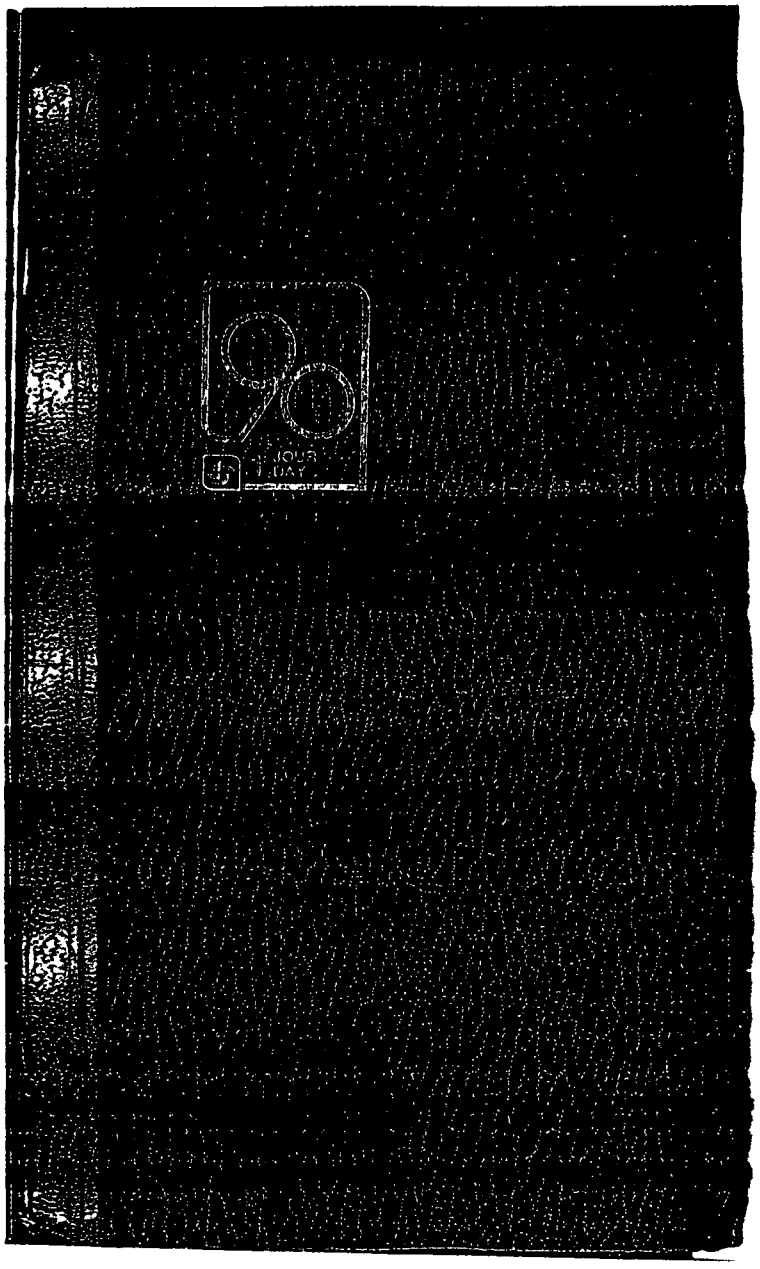
Day 57				
Day 58				

Results were positive for nephrite jade discoveries, resulting in two new claims and a thwarted trip to make claims at two more sites. If open, the ground will be staked at the first opportunity in the summer of 1991. Two other site discoveries are not considered economic because of their low volume and innaccessible nature.

PGE results were disappointing and point to the ophiolites being of the "Alpine" type and not the "Alaskan" type which have more potential for PGE. The character of the deposits of mafic rocks points to a possible layered sequence origin, with chromite apparently accumulating in layers. Chromite was found at two sites. The Cu-Ni sulphides that usually are associated with PGE were not in evidence along with the chromites However, because of the possible layered nature of the deposits, there remains some optimism that PGE concentrations may yet be found.

Gold results were similarily unrewarding. Two possible deposit locations were investigated and have promising geologic settings - however they could be barren for gold, or at the very least they appear uneconomic

Assays showed some areas that should be further investigated for other elements.


90
JOUR
DAY

17 JUILLET JULY — mardi tuesday — 198-167

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BLUELINE

mercredi wednesday 199-166 — JUILLET JULY **18**

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Argo is taken in to Hasselburg Lake air strip for use on return from walk out of Black Lake area prospecting. Assistant spent night at the cabin at Hasselburg Lake.

Food for "food drops" were prepared in 3 buckets and all maps and geochem studies were prepared in the order that they would be needed tomorrow.

Some work done preparing the Argo for the trip, and final route selection was decided.

Altogether 19 maps and 3 geochem studies were selected for the helicopter trip + walk out.

Whole day spent preparing for helicopter trip.

Expenses – Argo rental; 25.00

gas for trip in/out;

Helicopter flight day.

19 JUILLET JULY 90 jeudi thursday 200-165

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afternoon

8 Left Miner's Junction
at 8:00 AM - clear weather
9 built up clouds from heat
10 Collected Samples at
Various sites in Kraft
11 Soil bags for assay, desc.
- See map of sites.
12
Examined area above Bill's
13 Claim in 105-B-16. On
later fly by Staked two
14 Claims Chris and Dawn
to adjoin Bill's claims.
15
Established 3 food sites for
16 later pick up on walk
out, left food in buckets
17
We Were dropped off on S.E
18 corner of Black Lake
at beach site, where
19 we make camp for night.
20 Expenses - Frontier Helicopters
4.7 hrs @ 685.00/hr. =
and Argo rental

BLUELINE

vendredi friday 201-164 90 **JUILLET JULY 20**

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afternoon —°C

am 8
Examined East shore of
Black Lake, both north 9
and south of campsite.
10
Few rocks of any size were
noted, no jade and 11
not even much serpen-
tine was there. 12

Mostly were schist, quartzite
and gneiss. Some quartz
was noted with peculiar 2
red coloration
3
Went downstream a short
way down the Black 4
River. One very large
granite boulder in stream 5
Otherwise all were very
small rocks - no nephrite 6

Some iron stained - hematite
schistose rock noted,
but no pyrites were found

Expenses - Argo rental

21 JUILLET JULY 90 samedi saturday 202-163

8 Hiked up major stream on east shore of Black Lake 80° compass heading (SE of North)

10 Rocks varied a lot at bottom of creek. Noted were predominately schist (mica subset) and gneiss black/white banded. Also noted were orange orthoclase, serpentine and some quartz, without much mineralization

14 Hematite staining in the quartz carried very little other mineralization. At base, on alluvial area and further upstream 2 miles some geochem samples were taken.

17 Stream rock cuts showed in 3 places, one serpentinite and one heavily quartz ribboned schist about 70 meters wide up 2 mi

19 Most rock is gneiss or schist in the stream bed.

BLUELINE

Expenses – Argo rental

Lightning Hazy PM

dimanche sunday 203-162 90 JUILLET JULY 22

Hiked up same creek as yesterday. Same type rock for most part — gneiss predominately with much hornblende or mica and feldspar/quartz.

Large boulders up to 1-2 tons are common. Mostly gneiss

pm 1 Serpentine rock increased further upstream but still very minor constituent of the stream. No nephrite, no limestone or reaction zones on mountains along stream.

Cross over at bucket of food ridge into next valley to the north at the head end of the valley.

Again, mostly gneiss black-white

Examine gossan, collect sed. samples

Expenses Argo rental

Very Smokey.

23 JUILLET JULY

90

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lundi monday 204-161

AM PM

Hiked down valley on right side facing downstream.

Crossed several talus slopes of rock – each more + more serpentine but no visible metallic mineralization or nephrite. Coarse hornblende

Crossed point at tree-line, rock brown/orange stained serpentine type rock, + down into next stream.

In stream was again gneiss type rock + no [illegible] serpentine + no nephrite. Collected sed.

Again down stream on right side to treeline + crossed point of serpentine. No reaction zones or nephrite. Stopped at major (dry) streambed going north out of basin. Bucket of food there.

Expenses – Argo rental

Very Smokey AM
later smoke much less

mardi tuesday 205-160

90

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JUILLET JULY 24

late in day

Hiked along stream (dry) down about 500 yards (max.) to where bend east starts

Collected sed. sample on bottom flat. Panning yielded black sands. On the flat was nephrite boulders – only a few of any size. Est. 1 at 2 tons, one at 300 lbs. Took photos. Took rock samples + chromite. Hiked upstream and noted rock like kimberlite, but not any mica or pyrope garnets visible. Breccia? / Sedimentary?

Rock of every texture for ign/meta rock possible? Lots of veining and layering. Poss. pillow basalts. Dip 55°W, strike 58°S

Collected more chromite copper rusty specimens and poss. jadeite. Collected sed. sample 300 yds. upstream of camp. Nephrite? Big.

Expenses – Argo rental

Windy last night - Smoke gone today
Saw fire along Tuchitua

25 JUILLET JULY

mercredi wednesday 206-159

Smoke there

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8 Found more chromite 50 yd. downstream from camp site. Largest one yet! 35-40 lbs. Looks like a 5" large 8" deep x 12" long (maxi-angular). Total found is 4 pieces

Dug hole 2' deep below camp took sed. sample.

Hiked across north point face thru another stream-basin. Looked v. similar to prev. one - some green stained rock. Rocks on face were also layered serp/ultramafic rocks like prev. dry creek site. Similar rock until around corner then schist type rock.

Some white weathered roundish boulders at low elev. on west side of valley to North pass basin lake seemed to be feldspar/quartz, not likely nephrite. Lichen coated - no sample taken. Some rock at Lake - not nephrite

Bing

Expenses - Argo rental

Cold, windy No smoke

26 JUILLET JULY

jeudi thursday 207-158

all day - off/on

Examined rock along lake shore. Some quartz, some phyllite, some ½ otherwise feldspar & quartz.

Noted very few serp boulders and no nephrite

Some rock was rust stained but no mineralization of any significant amount or type was noted.

Much of the rock is glacial moraine or till. Appears to be from the west mountains mostly? (west of the lake).

Day limited by rain and it was also a cold day.

Expenses - Argo rental

Saw Tachitua Fire

27 JUILLET JULY 90 vendredi friday 208-157

Climbed to top of mnts. at north end to East of Lake.

Noted quartz / rust stained going up avalanche slope along with phyllite

Saw Tachitua Fire - still going strong and moving west from the river. Burned out areas visible to Southeast.

Noted serpentine in somewhat layered deposit. Dip N 50° Strike 65° West of North. Iron stained gossan below followed by phyllite with quartz veins in phyllite - mylonite. Samples collected in serp. in phyllite + quartz seams!

Similar looking point to East on other side of stream basin pointing north

Expenses - Argo rental

Strong winds

samedi saturday 209-156 JUILLET JULY **28**

Hiked up to East ridge along lake + Porcupine River, and south along ridge tops.

Most of the ridge was phyllite / mylonite with rust stained gossans and quartz veins scattered along the ridge length. Most gossans were small, and no obvious mineralization other than magnetite

At approx 2 miles south of lake on East Ridge was noted some schisty nephrite. No large boulders - biggest approx. 400 lbs. Site is inaccessible to vehicles not worth effort / expense. Samples.

Crossed basin face into Bill's claim valley basin. Entered basin on North rim. Collected some samples along basin face of dark rock - some quartz seams material also. Noted nephrite on North rim of Bill's basin - may make more claims there.

Expenses - Argo rental

29 JUILLET JULY — dimanche sunday 210-155

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90

—°C

Hiked out of Bill's claim to East around North side of mnt.

Most rock was phyllite/mylonite and some serpentine. No gossans, no obvious minerals in rocks noted. No nephrite. Deposits unlikely.

Hiked over plateau and along S.E. strike of anomaly convergence. Most rock was serpentine type except to north of saddle along connecting mnt. to plateau, which was also phyllite.

Noted chromite type rocks on surface along line from Chromite Creek to northernmost West side of the 2 mounds on the plateau.

In creek noted more chromite and mostly serpentized rock and some small pieces of light green nephrite - Hasselburg Lake type, with iron stained inclusions.

BLUELINE

Expenses - Argo rental

lundi monday 211-154 — **30** JUILLET JULY

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90

—°C

Hiked downstream along Chromite Creek toward the Hasselburg Lake area.

Noted more nephrite downstream in large number of rocks but small in size. Largest was a few hundred pounds but color seems very good.

Because of the quick nature of the examination of creek at spots only & the amt. of nephrite noted, there is prob. lots there and deserves more examination. Another trip is planned to the creek and the chromite showing. Sed. sample taken from stream not far downstream from the plateau start - approx 3/4 mile.

Plateau deserves further examination as does creek. Have to get to Watson Lake first to file claim papers for Chris + Dawn claims.

Expenses - Argo Rental.

31 JUILLET / JULY — 90 — **mardi / tuesday** 212-153

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°C

Hiked from Hearty's cabin on Hasselburg Lake where we spent the night to the Hasselburg airstrip where we had the Argo stowed from the helicopter trip.

Argo to Km 18 on the logging road to Hasselburg / Turkey where we had the Ford 4x4 stored/parked. Loaded the Argo in trailer + drove to Miners Junction.

Noted several occurances of serpentine along the Hasselburg section of the winter road. Collected samples

Unloaded / unpacked in the rain. Rained all the way out from the logging area for the rest of the day

Expenses – Argo rental
Argo gasoline
4x4 gasoline/mileage
Trailer rental

DÉPENSES / EXPENSES — JUILLET / JULY

	Hôtel / Hotel	Taxi-Avion / Cab-Plane	Déjeuner / Breakfast	Dîner / Lunch	Souper / Dinner	Divertissement / Entertainment	Essence Huile / Gas-Oil	Stationnement / Parking	Total
1									
2									
3									
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Total									

Kilomètres-Milles / Kilometers-Miles	sem. 1 week	sem. 2 week	sem. 3 week	sem. 4 week	sem. 5 week
Départ/Start					
Arrivée/End					
Kilomètres / Kilometers Milles / Miles					

Frais de Divertissements Entertainment Expenses	Dates	Personne(s) Invitée(s) Person(s) Entertained

1 AOÛT / AUGUST — mercredi / wednesday — 213-152

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BLUELINE

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jeudi / thursday — 214-151 — AOÛT / AUGUST 2

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—°C

am 8 — Prepared samples for assay. Cleaned all soil and sample stream sediment samples of organics and large stones.

11 — Logged all samples into numbered specimens and [illegible] for location and sample types

pm 2 — Reexamined rock samples with hand lens and selected samples to go to assay. Tentatively identified some [illegible].

4:30 — Decided which specimens would get "Gold +30" and which would get "Platinum +32" packages from Northern Analytical Assayers in Whitehorse. Wrote up order and packaged samples.

8
30

3 AOÛT AUGUST — 90 — vendredi friday — 215-150

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°C

8 Took Ford (2 wheel) to
30 Watson Lake - to record
9 the Chris and Dawn claims
30 at the Mining Recorder,
10 to send the assays to
30 Whitehorse by bus
11 and to get more supplies
30
12 Trip took most of the day
30 - 3 hours driving - 1 hour
13 at Mining Recorder - 2½
30 hours getting supplies
14 - ½ hour to send off
30 assays by bus.
15
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18
30 Expenses
19 1. Truck + Watson Lake and
30 Return to Miner's J.
20 2. Bus assays to Whse.
30 3. Phone calls to assayer
(Truck 230 km @)

samedi saturday — 216-149 — 90 — **AOÛT AUGUST 4**

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7 AOÛT AUGUST — 90 — mardi tuesday 219-146

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—°C

Packed for second trip to the Campbell Range. Plan for 5 days to explore gold geochemical anomalies and to look for more nephrite.

Serviced Argo for trip – new wiring for battery, changed left brake, adjusted all shifter chains, tightened transmission mount.

Selected maps to take and went over the 105-H geochemical reports data and maps.

Plan is to explore the back side away from the Campbell Highway (West side) of the Campbell Range and to the South of the King Claims. Also planned is to explore the limestone showings to the west of the mountain range above seen from the helicopter flight on July [illegible]

BLUELINE

mercredi wednesday 220-145 — 90 — **AOÛT AUGUST 8**

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—°C

Drove Ford to Km 147 and up the Jade mining road 3 Km where the Argo was unloaded.

Drove Argo to King Claims with my assistant. Explored the serpentinite lens cutting site to learn more about the jade seams. Bill drove Argo back to truck and truck back to Miner's Junction.

My assistant and I then back-packed to stream with high gold geochem anomaly. Crossed a stream on way + took sediment sample. Also took 2 sediment samples in stream just East of Margaret Elizabeth Claim.

Streams East of Marg. Eliz. were mostly negative. Stream crossed before gold anomaly stream had bedrock limestone of marble. Pos. acid test. No gold or black sand in pan.

Expenses Ford → Jade Rd → Miners Junct. + return 80 Km
Argo rental 25,00 + gas 14 l @ 66.9 =

9 AOÛT / AUGUST — 90 — jeudi / thursday — 221-144

D/S	L/M	M/T	M/W	J/T	V/F	S/S
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—°C

Took soil samples in main stream of basin suspected of gold occurrance.

Hike [illegible] basin rim taking 2 more [illegible] samples from [illegible] down [illegible] of serpentine [illegible]

Explored contact areas of serpentine and limestone on East side of basin. Found nephrite of low quality at the top of the basin rim.

Explored gossan and serpentine [illegible] on basin walls. Collected rock samples. Noted much sulphide/oxide mineralization on South side of basin. Also noted some rhyolite and a low quality nephrite occurance on South side of basin. Panned main creek and found little black sand and no gold.

BLUELINE

vendredi / friday — 222-143 — 90 — **AOÛT / AUGUST 10**

D/S	L/M	M/T	M/W	J/T	V/F	S/S
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—°C

Hiked up creek going south from main basin creek onto west shoulder of mountain range. Noted much soapstone some boulders up to 2 tons, and schisty nephrite. Not economical to mine. Noted also some more sulphide and quartz in stream. Took soil samples.

Hiked south along shoulder on West side. Mostly phyllite scree and some massive white barren quartz in seams to 1 foot wide or more.

Limestone areas to west looked poor for nephrite because there were no contact zones with serpentine. Decided to not go to them.

At South end we turned and hiked East down stream to main stream going Southwest. Rock was mostly serpentine and mica schist with some granite. Decided to go up stream the next day going [illegible] main camp.

No nephrite found this day of any importance

Took sed. samples from main stream and stream going up the minor East basin. Panning showed no gold and little black sand.

Stream was hiked up to where it goes. Rock noted was much marble/limestone (pos. acid test), mica schist mostly in lower part, some green stone, some sulphide mineralized rock, and some white quartz.

At fork the 2 branches were examined. The South fork was mostly marble and sulphide containing quartzite and phyllite.

The middle of fork had seams of sugary material grey, green, pink and purple in serpentine rock.

The North fork had more of the granular rock some sulphide mineralized serpentine, and black rock. Samples taken.

Examined rock in creek going East down the East slope of the Campbell Range toward the Campbell Highway. No nephrite or soapstone was found. Little rock was sulphide/oxide mineralized.

Panning was negative with no gold and little black sand. Sediment samples were taken in the two streams going East out of the most southern east facing basin of Campbell Range.

Walked out to Campbell Highway and got a ride back to Miner's Junction. Little rock was visible in Frances River valley floor. One large rock was serpentine — only large rock seen — nephrite would not be visible for the most part in the glacial material in main valley floor.

17 AOÛT AUGUST — vendredi / friday — 229-136

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19	20	21	22	23	24	25
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90

8 Went to Watson Lake from Muncho
30 Junction + returned. Got more
9 supplies for next trip in bus.
10 Decided to spend several hours
30 prospecting along the road,
11 The Campbell Highway.

12 Two main areas were noted of
30 interest. One was a greenstone
13 rhyolite intrusive deposit along
30 the East Side of Simpson Lake
14 that extended for 2 miles. The
30 rock was pegmatoidal/porphyri-
15 tic with xenoliths — quite com.
30 None were nephrite.
16
30 The other is mounds of white/grey
17 with characteristic drooping
30 flow patterns and steep walled.
18 There was also a layered texture
30 suggestive of lake basin varve
19 deposits - but why just there at the
30 North end of Simpson Lake? Possibly
20 a nearby volcanic ash occurrence
30 10,000 years ago? Samples taken.

BLUELINE

samedi / saturday — 230-135 — **AOÛT AUGUST 18**

D S	L M	M T	M W	J T	V F	S S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

90

am 8, 30, 9, 30, 10, 30, 11, 12, 30, pm 1, 30, 2, 30, 3, 30, 4, 30, 5, 30, 6, 30, 7, 30, 8, 30

23 AOÛT AUGUST

jeudi thursday 235-130

D S	L M	M T	M W	J T	V F	S S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

90

8 · 30 · 9 · 30 · 10 · 30 · 11 · 30 · 12 · 30 · 13 · 30 · 14 · 30 · 15 · 30 · 16 · 30 · 17 · 30 · 18 · 30 · 19 · 30 · 20 · 30

BLUELINE

Expenses Ford 4x4 40 Km:
Argo gas ~ 20l:
Argo Rental:

vendredi friday 236-129 — AOÛT AUGUST 24

D S	L M	M T	M W	J T	V F	S S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

Prepared for trip into Hasselberg Lake area to examine further the nephrite occurances in the Bill's claim area

Took Ford 4x4 with Argo to Km 18 on the Tuchitua Logging Road. Unloaded, drove Argo to the Hasselberg Lake Cabin of Ron Hearty.

Stopped along the "road" at Km 13-14 all examined rock apparently from local occurance as many rocks were the same. Noted was a blackish quartzite material with large quartz seams cutting through it in seams up to 12 inches across. No mineralization was noted in the quartz.

Other rock collected that was a tan brown rough oxidized surface & showed a blue/white under the black light - appears to be scheelite - also high density (about 4) reaffirms this. Source not known yet. Needs further work

Argo was taken from Hearty's cabin and drove toward the plateau area northwest of Hasselburg Lake. Driving was slow cross country with no trail.

Stream crossed on East side of the plateau approach was sampled for sediments.

Rock was not visible most places in the woods, and what was visible was rounded and of glacial origin. Rocks in stream above was varied in types – also indicative of glacial material at an altitude of 4000 ft. To trace the chromite noted on the plateau it is important to establish the glacial history, esp. the direction of movement.

Argo breaks down – transmission lost reverse gear shaft bearing. Hike back to the cabin at Hasselburg Lake.

Expenses – Argo rental/$200 10 l.

Got a ride out of Hasselburg Lake with Stella Hearty in their new Argo. Saved a 2 day walk out to the truck for us.

Before leaving the Hasselburg Lake area the beach at the north end of the lake was examined. Many nephrite stones were noted and 9 were collected. They varied from light green/blue to a dark green with heavy spotting by a softer material of iron origin (some rusty staining). These were further examined with a magnet and the test verified spotting was magnetite.

Argo will have to be repaired later and returned to Miner's Junction. Return gas & Ford 4x4 expenses to be still incurred (will double Aug 24 expenses.)

27 AOÛT AUGUST — lundi monday 239-126

light in afternoon

Prepared for alternate trip after Fasselbury trip was cancelled. Decided to examine the highest aeromag anomaly closest to Miners Junction. That is apparently a continuation of the nephrite bearing area along the west side of the Campbell Highway.

Drove Ford 2 wheel truck to Km — and established pickup times for Wed. Plans for 3 days.

Hiked to second of 3 ridges to the aeromag. site. Little rock was noted en route in the wood of the Francis Valley floor. Rock that was found was mafic entirely or hornblende/mica/feldspar granular like granite.

Rock at lake was varied and rounded indicating glacial origin. No serpentine noted.

Expenses Ford — Km
(Return to Miners Junction)

mardi tuesday 240 125 — AOÛT AUGUST 28

Hiked to high aeromag. anomaly area just west and north of third lake.

Large high knoll on west side of lake showed the most rock exposures.

Most rock was serpentinized in nature, and schisty. There was some sulphide mineralization and some hematite. Also noted were some small quartz seams numerous but only 1/4 inch across. No mineralization was noted of importance and no nephrite was noted.

The stream north/west of the lake was examined also and was swampy with no rock outcrops.

Returned to camp at 2nd lake with my assistant.

29 AOÛT AUGUST — mercredi wednesday — 90 — 241-124

Hiked from second lake campsite back to Campbell Highway via a different route than my assistant and I went into high aeroma area north of Fuchitna River.

Because of low elevation and moss covered valley of Francis River few rocks were visible.

No outcrops were noted and visible rock when seen was glacial in origin (glacial till)

Arrived at Campbell Highway and waited ½ hour for pre-arranged pick up ride from Miner's Junction at Km 121

Returned to Miner's Junction and unpacked.

Expenses —
1. Ford 2 wheel from Miner's Junction to Km 121 and return (22 Km total)

jeudi thursday — 90 — 242-123 — AOÛT AUGUST 30

Spent entire day on Jake Mountain examining the thrust faults and their associated quartz carbonate seams and other faults for evidence of metallic mineralization. This was based on information from INA Yukon office field geologists Trevor and Diane

Deposit type similar to other gold bearing listwanite deposits for example at Atlin BC (Yellowjacket claims)

Found mineralization in one sample only. Olive black crystals up to ⅛ inch and dodecahedrons in a white calcite quartz carbonate rock

Sediment samples were taken in 2 small streams on north side of Mnt. where serpentine is abundant.

Expenses — 4x4 for 99 Km.

31 AOÛT AUGUST

90

vendredi
friday
243-122

D S	L M	M T	M W	J T	V F	S S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

8 30 Received rock from Bill Friedburg from the base of the 1st rapids down stream from Francis Lake.

9 30

10 30 Rock noted there is 2 colors of brown very similar to rock that I've brought that others say is wood fir.

11 30

12 30

13 30 Rock was broken and then examined with a 40X binocular microscope. Structure was grainy like quartzite but there were numerous small black resinous crystals so it was decided to have it assayed since there is reportedly much similar rock there.

14 30

15 30

16 30

17 30

18 30

19 30 Expenses – none

20 30

BLUELINE

DÉPENSES EXPENSES

AOÛT AUGUST

	Hôtel Hotel	Taxi-Avion Cab-Plane	Déjeuner Breakfast	Dîner Lunch	Souper Dinner	Divertissement Entertainment	Essence Huile Gas-Oil	Stationnement Parking	Total
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
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22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
Total									

Kilomètres-Milles, Kilometers-Miles	sem. 1 week	sem. 2 week	sem. 3 week	sem. 4 week	sem. 5 week
Départ/Start					
Arrivée/End					
Kilomètres / Kilometers Milles / Miles					

Frais de Divertissements Entertainment Expenses	Dates	Personne(s) Invitée(s) Person(s) Entertained

1 SEPTEMBRE / SEPTEMBER — 90 — samedi / saturday — 244-121

8 30 [Had to rush people from California (tourists) to Watson Lake hospital, and tend to them there.]

9 30 10 11 Nothing on mining except that in return all the sediment and rock samples were organized in order collected in preparation for sending out assay samples. 2 hours.

12 30 13 30 14 30 15 30 16 30 17 30 18 30 19 30 20 30

BLUELINE

dimanche / sunday — 245-120 — 90 — **SEPTEMBRE / SEPTEMBER 2**

am 8 30 Prepared samples for assay. Cleaned all soil and stream sediment samples of organics and large stones. 10 30

Logged all specimens into ordered numbered samples with descriptions of material, locations etc. into log book. 11 30 12 30

PM 1 30 Reexamined all rock + sediment specimens with a 40 X microscope (binocular). Selected most promising specimens to go to assayers. 3 30

Decided which mineral/element tests should be done on each specimen and wrote up orders from Northern Analytical and Bondar-Clegg assayers. 6 30

Packaged specimens for bus delivery tomorrow. Stored & marked specimen not chosen for assay 7 30

3 SEPTEMBRE / SEPTEMBER — 90 — **lundi / monday** — 246-119 — Fête du Travail / Labour Day

mardi / tuesday — 247-118 — **SEPTEMBRE / SEPTEMBER 4**

8 30 Took Ford 2 wheel truck to Watson Lake and then took boxed samples to bus depot and had them shipped to assayers in Whitehorse and Vancouver. Time required was ½ Day about

9 30

10 30

11

12 Returned back to Fort St. John the other ½ of the

13 Day. Traveled all night long.

14 30

15 30

16 30

17 30

18 30 Expenses 230 Km.

19 30 1. Truck to Watson Lake return to Miner's Junction.

20 30 2. Bus Freight to assayers

3. Return trip to home at end of prospecting season

BLUELINE

Arrived Fort St. John at 7:45 AM after traveling all night.

am 8 30 9 30 10 11 12 30 pm 1 2 30 3 30 4 30 5 6 30 7 30 8

Sent Geochem Bags Black Lake Trip

#	Sample site	Type	Sample #	Assay
1	E. Plateau - Vanishidge	Soil	90-01	Plat 32
2	N. Lakes gossan stream	wet Stream	90-02	Gold 30
3	Tranny Ridge	Soil	90-03	Gold 30
4	Black Lake - st. base	dry Stream	90-04	Gold 30
5	Bucket Ridge over - upper Valley	wet Stream	90-05	Gold 30
6	Power Snooze Cr. - lots of qtz.	wet Stream	90-06	Gold 30
7	Bucket #2 Ridge - lower flat	dry Stream	90-07	Plat 32
8	" " " - camp/hole	dry Stream	90-08	Gold 30
9	1st E. of Bucket #2 - st. base	wet Stream	90-09	Gold 30
10	Bill Creek - bank overflow	dry Stream	90-10	Gold 30
11	" " - active stream	wet Stream	90-11	Plat 32
12	W. Plateau Creek - crossing	wet Stream	90-12	Plat 32

Not sent in

13	Mt. Bill - lower neph contact	Soil	90-13	
14	Black Lake Stream - mid	wet Stream	90-14	
15	Bucket #2 Creek - upper	dry Stream	90-15	

(#1-10 → Campbell Range Trip Geochem Bags

#	Sample Site	Type	Sample #	Assay
1	Caribou Creek S. of Marg. Elev.	dry stream	9016	G+33, P+6
2	Soapstone Creek #1	wet stream	9017	G+33, P+6
3	Back basin / N.E. stream	wet stream	9018	G+33
4	Back basin / S.E. stream	wet stream	9019	G+33, P+6
5	Soapstone Creek #2	wet stream	9020	G+33, P+6
6	Bear Creek - upstream of Red Creek	wet stream	9021	G+33, P+6
7	Red Creek - back pike	wet/Concentrate	9022	G+33, P+6
8	Pink gossan on pink mnt.	dry soil	9023	G+33
9	Last camp creek - front range	wet stream	9024	G+33, P+6
10	Stream north of Last Camp Creek	wet stream	9025	G+33
11	Tan grey mounds by Camp. Hwy	dry soil	9026	G+33
12	Jade Mnt. stream by roadside	wet stream	9027	G+33, P+6
13	Jade Spring Creek	dry stream	9028	G+33, P+6
14	Caribou pass creek / W. of Jade Spring	dry stream	9029	G+33, P+6

Black Lake Trip Rock Samples

Site	Description	#	Assay
(1) Heli #1 E. Plateau - Rogers - banded black/serp. (rusty edge)		90-51	Plat 32
(2) " " " " - Rogers - black speckled/serp (") [lens]		90-52	Plat 32
(3) Tranny Ridge - Rogers area - gossan rock - heavy sulph?		90-53	Gold 30
(4) " " - " - light (hypsidic?) - red/pink		90-54	Gold 30
(5) Dry Creek - ridge gossan, lt. brown w/copper ?/D_2 crust [of greenish]		90-55	Plat 32
(6) " " - creek rock/gossan - " " w/dark br. crust [v. pitted]		90-56	Gold 30
(7) " " - creek rock/ " " (no green) w black spotting		90-57	Plat 32
(8) " " - black crystals (5mm)/ ~~purp gray~~ + green		90-58	Plat 32
(9) " " " " Massive w serp.		90-59	Plat 32
(10) " " Same rock (2pcs.)		90-60	Plat 32

(Sample 10) was mistakenly included, and ⇒ was assayed for Plat + 32 twice

(#1-20→) Campbell Range Trip Rock Samples

#	Site	Description	Sample#	Assay
1.	Mary Eliz.	Limestone (fizzes), fluor. yellow | tan/grey	9061	G+33
2.	Back basin stream	Olive, chrome green specs, small radial tufts fiber crystals	9062	G+33, P+6
3.	Back basin ~ East top	Grey green, clear, hard (quartz?)	9063	Whole Rock
4.	Back basin ~ South top	Opaque purplish, red inclusions (Rhyolite?)	9064	G+33
5.	Back basin ~ S.E. top	Red brown dull, bright red shiny inclu.	9065	G+33
6.	Back basin ~ South top	Black dull, green dark crystalline, some qtz seams, visible pyrites?	9066	G+33, P+6
7.	Back basin ~ South side	Layers of micro granular black in serpentine material	9067	G+33, P+6
8.	Back basin ~ Middle hump by dike	Rusty, serp, brick red bakelite seam	9068	G+33
9.	Soapstone Creek #2	Dark crystalline, sulp + rusty alga, silver visible metallics	9069	G+33, P+6
10.	Red creek ½ way up (like seam above at Y)	Flesh pink, no black O₂ surface, v. fine grain	9070	Gold 30
11.	Red creek ¾ way up	Mostly brown porous dull bands in cream stone (mariposite?)	9071	Gold 30
12.	Red creek ~ South slope Y*	Black, heavy sulphide, radial, iridescent, shiney black gossan hematite	9072	Plat 32
13	Red Creek ~ at Y center left	Brown rough, lt. brown, granular gr. spots, vis.? metal.	9073	Gold 30
14.	Red Creek north on Y	Translucent purplish, red inclusions (fizz)	9074	Whole Rock
15.	Red Creek north on Y	Brown rough coat, tan & gr. crystal, white seam fluor.	9075	Gold 30
16.	Red Creek left branch	Black dull, specular sil grey + rusty inside	9076	Gold 30
17.	Red Creek left branch	Flesh pink inside, dull black outside	9077	Gold 30
18.	Red Creek left branch	Whitish granular inside, Black dull outside	9078	Gold 30
19.	Last camp creek	Flesh color / nodule (thicker) Black grey/purple brown laminated, fine grain	9079	Gold 30
20.	South east slope before last camp	Solitary rock - Grey + flesh crystalline, red spots	9080	Gold 30
21.	White Lake, n. end	Nodules brown red black, hard	9081	Gold 30
22.	Francis River - rapids above old farm	Black grey, w quartz seams; black grains	9082	Plat. 32

Northern Analytical Laboratories ltd.

105 Copper Road
Whitehorse, Yukon
Y1A 2Z7

Phone: (403) 668-4968
Fax: (403) 668-4890

ICP MULTI-ELEMENT ANALYSIS

ICP Analysis *

Aqua Regia Digestion [30 Elements] . . . . . .

Multi-Acid Digestion [30 Elements] ** . . . . .

Elements	*Detection*
Ag	0.2 ppm
Cd	0.5 ppm
B, Ba, Be, Cr, Co, Cu, La, Mn, Mo, Ni, Sr, V, Zn	1 ppm
Pb	2 ppm
As, Bi, Hg, Sb, W	3 ppm
U	10 ppm
P, Si	0.001 %
Al, Ca, Fe, Mg, Na, Ti	0.01 %

Solubility of some elements may be incomplete.

* Sent out to subcontractor
** Minimum of 20 samples per submission

Pt 32 *
Au,Pt,Pd 30g fire assay, AAS finish
30 element ICP . . . . . .

Classical Whole Rock Analysis*

SiO_2, Al_2O_3, Fe as Fe_2O_3, MgO, CaO, Na_2O, K_2O,
TiO_2, P_2O_5, MnO, BaO, Cr_2O_3, SrO, V_2O_5, L.O.I. . . . . .

* Sent out to subcontractor

BONDAR-CLEGG & CO. LTD.
130 Pemberton Avenue
North Vancouver, B.C.
V7P 2R5

Tel. (604) 985-0681

"Gold + 33"

Direct Irradiation/INAA of a vial of prepared sample approximately 10 g for rock, or soil, or 20 g of heavy mineral concentrate. The large vial holds approximately three times those amounts. The detection limits for heavy mineral concentrates may be higher depending on the nature of the concentrate.

Element	Option 1		Element	Option 1	
Gold	5	ppb	Nickel	20	ppm
Antimony	0.2	ppm	Rubidium	10	ppm
Arsenic	1	ppm	Samarium	0.2	ppm
Barium	100	ppm	Scandium	0.5	ppm
Bromine	1	ppm	Selenium	10	ppm
Cadmium	10	ppm	Silver	5	ppm
Cerium	10	ppm	Sodium	0.05	%
Cesium	1	ppm	Tantalum	1	ppm
Chromium	50	ppm	Tellurium	20	ppm
Cobalt	10	ppm	Terbium	1	ppm
Europium	2	ppm	Thorium	0.5	ppm
Hafnium	2	ppm	Tin	200	ppm
Iridium	100	ppb	Tungsten	2	ppm
Iron	0.5	%	Uranium	0.5	ppm
Lanthanum	5	ppm	Ytterbium	5	ppm
Lutetium	0.5	ppm	Zinc	200	ppm
Molybdenum	2	ppm	Zirconium	500	ppm

"Platinum + 6"

Pt, Pd, Au (15 g Fire Assay/DCP), plus
Cu, Ni, Co, Cr*
Package price

The digestion used in these packages may be incomplete for certain mineral forms of those elements marked with an asterisk.

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Northern Analytical Labs. Ltd. PROJECT WO#08290 File # 90-3832

105 Copper Road, Whitehorse YT Y1A 2Z7 Submitted by: GERALD HAYES

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
90-01	1	20	36	73	.2	756	82	1098	5.44	30	5	ND	3	7	.5	4	3	37	.08	.038	8	514	4.71	82	.05	8	.90	.01	.05	1
90-02	13	29	16	62	.2	29	9	633	2.18	8	5	ND	6	19	.4	2	2	39	.40	.045	12	181	.77	225	.07	5	1.13	.03	.16	1
90-03	6	55	231	139	3.5	74	4	128	3.40	29	5	ND	5	24	.2	9	2	42	.05	.061	13	36	.22	235	.03	3	.90	.01	.09	1
90-04	1	20	26	88	.2	25	10	467	3.10	2	5	ND	12	18	.3	2	4	41	.50	.071	25	33	.81	112	.15	3	1.60	.01	.24	1
90-06	9	14	8	40	.2	25	5	463	1.37	2	5	ND	5	12	.4	2	3	22	.28	.023	10	125	.36	90	.04	2	.64	.05	.09	2
90-07	1	25	2	38	.1	1397	69	702	3.76	3	5	ND	2	3	.2	2	2	18	.17	.012	2	470	13.05	37	.02	9	.28	.01	.05	1
90-08	1	23	2	28	.1	1304	67	639	2.73	2	5	ND	1	2	.2	2	2	11	.10	.010	2	351	14.00	18	.01	8	.38	.01	.01	1
90-09	2	98	31	338	.3	188	24	946	3.98	9	5	ND	4	21	2.0	2	2	58	.48	.056	14	106	2.07	403	.12	2	1.40	.02	.21	1
90-10	1	36	5	51	.2	122	14	307	2.83	17	5	ND	3	6	.2	2	2	43	.30	.080	7	112	1.17	95	.12	2	.85	.01	.18	1
90-11	1	50	6	59	.2	187	19	415	3.30	21	5	ND	3	7	.2	2	2	52	.29	.066	8	127	2.02	107	.14	2	1.17	.02	.20	1
90-12	4	15	5	55	.2	772	47	792	4.00	11	5	ND	2	12	.3	2	2	35	.22	.020	4	996	5.70	56	.03	8	.76	.02	.04	1
90-051	1	6	23	58	.1	2023	105	1000	5.39	13	5	ND	1	1	.2	2	2	9	.04	.005	2	1114	22.08	43	.01	21	.02	.01	.02	1
90-052	1	27	17	34	.2	1750	46	292	2.05	4	5	ND	1	3	.2	2	2	2	.15	.004	2	277	14.91	35	.01	38	.03	.01	.01	1
90-053	4	28	70	108	.3	24	12	1372	18.20	7	8	ND	6	6	.6	4	6	72	.03	.021	18	41	.23	188	.03	3	.45	.01	.25	1
90-054	18	7	41	51	.3	38	3	52	.64	7	5	ND	1	38	.4	7	2	5	.07	.003	2	180	.33	1234	.01	2	.09	.01	.04	2
90-055	6	24	23	46	.1	2106	63	471	3.76	9	5	ND	1	7	.2	2	2	11	.11	.004	2	521	9.74	391	.01	2	.03	.01	.01	1
90-056	3	3	2	25	.1	1106	66	658	3.96	4	5	ND	1	6	.2	2	2	9	.18	.004	2	383	14.96	78	.01	3	.04	.01	.01	1
90-057	1	14	4	37	.1	1429	62	721	4.88	3	5	ND	1	5	.2	2	2	12	.10	.004	2	746	16.25	86	.01	5	.04	.01	.01	1
90-058	6	11	96	104	.2	562	5	161	.61	5	5	ND	1	2	.4	2	5	6	.02	.003	2	2405	3.25	208	.01	2	.43	.01	.01	2
90-059	7	7	29	40	.1	328	4	176	.55	2	5	ND	1	1	.2	2	7	8	.01	.002	2	3022	3.03	45	.01	2	.81	.01	.01	3
90-060	7	12	15	23	.1	286	3	156	.44	3	5	ND	1	1	.2	2	6	7	.01	.002	2	2464	2.67	29	.01	2	.76	.01	.01	3
STANDARD C	19	57	41	133	7.2	73	31	1046	3.94	41	20	7	39	52	19.0	15	18	59	.52	.096	39	60	.89	182	.09	34	1.89	.06	.13	11

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: PULP

DATE RECEIVED: AUG 24 1990 **DATE REPORT MAILED:** Aug 29/90. **SIGNED BY** C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: AUG 24 1990

DATE REPORT MAILED: Aug 25/90

GEOCHEM PRECIOUS METALS ANALYSIS

Northern Analytical Labs. Ltd. PROJECT WO#08290 FILE # 90-3831

105 Copper Road, Whitehorse YT Y1A 2Z7 Attn: GERALD HAYES

SAMPLE#	Au ppb	Pt ppb	Pd ppb
90-01	48	1	5
90-07	21	1	8
90-51	2	2	2
90-57	10	1	3
90-59	1	3	2
90-60	1	1	2
STANDARD FA-R	502	487	492

10 GRAM SAMPLE FIRE ASSAY AND ANALYSIS BY ICP.
- SAMPLE TYPE: Bead

SIGNED BY..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Northern Analytical Laboratories ltd.

August 22,1990

Work Order # 08290

Van Krichbaum
c/o Miner's Junction
Box 213
Watson Lake, Y.T.
Y0A 1C0

Assay Certificate For Samples Provided

Sample	ppb Au
90-02	<10
90-03	34
90-04	19
90-05	ins
90-06	25
90-08	16
90-09	12
90-10	16
90-53	27
90-54	26
90-56	31

Au -- 15g Fire Assay/AAS

Applied Science Technologists and Technicians of British Columbia
6992
GERALD F HAYES
A.Sc T

105 Copper Road, Whitehorse, YT, Y1A 2Z7 Ph. (403) 668-4968 Fax: (403) 668-4890

ACME ANALYTICAL LABORATORIES
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: AUG 24 1990

DATE REPORT MAILED: Aug. 29/90

GEOCHEM PRECIOUS METALS ANALYSIS

Northern Analytical Labs. Ltd. PROJECT WO#08290 FILE # 90-3832
105 Copper Road, Whitehorse YT Y1A 227 Attn: GERALD HAYES

SAMPLE#	Au ppb	Pt ppb	Pd ppb
90-11	1	6	10
90-12	6	1	15
90-052	1	5	16
90-055	1	2	20
90-058	7	3	2

10 GRAM SAMPLE FIRE ASSAY AND ANALYSIS BY ICP/GRAPHITE FURNACE.
- SAMPLE TYPE: PULP

SIGNED BY..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Bondar-Clegg & Company Ltd.
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North Vancouver, B C.
V7P 2R5
(6[illegible]985-0681 Telex 04-352667

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 21-SEP-90

REPORT: V90-01990.0 | PROJECT: NONE GIVEN | PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ir PPB	Ag PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	As PPM	Sb PPM	Fe PCT
T1 9016		<5	<100	<5	<200	<2	1400	130	<10	6	0.7	7.5
T1 9017		5	<100	<5	<200	<2	1500	110	<10	1	5.0	4.1
T1 9018		6	<100	<5	<200	<2	1500	140	<10	58	8.4	5.3
T1 9019		<5	<100	<5	<200	<2	1300	140	<10	109	5.8	5.9
T1 9020		6	<100	<5	<200	<2	700	74	<10	27	3.2	4.9
T1 9021		<5	<100	<5	<200	<2	410	57	<10	36	2.6	5.5
T1 9022		<5	<100	<5	<200	<2	<50	29	<10	16	1.1	4.1
T1 9023		<5	<100	<5	<200	<2	1900	180	<10	179	3.7	4.2
T1 9024		<5	<100	<5	<200	<2	560	92	<10	8	1.3	8.0
T1 9025		<5	<100	<5	<200	<2	180	40	<10	14	8.2	5.1
T1 9026		7	<100	<5	<200	3	<50	15	<10	13	2.3	2.6
T1 9027		<5	<100	<5	<200	<2	1200	110	<10	5	0.4	5.4
T1 9028		<5	<100	<5	<200	<2	1100	100	<10	5	0.7	5.1
T1 9029		<5	<100	<5	<200	<2	1500	160	<10	<1	0.3	5.4
R2 9061		<5	<100	<5	<200	<2	<50	<10	<10	1	<0.2	<0.5
R2 9062		<5	<100	<5	<200	<2	500	68	<10	2	0.4	3.6
R2 9064		<5	<100	<5	<200	<2	510	58	<10	5	1.2	3.8
R2 9065		6	<100	<5	<200	<2	180	80	<10	10	1.9	3.8
R2 9066		<5	<100	<5	<200	<2	500	110	<10	148	1.2	2.7
R2 9067		18	<100	<5	630	<2	1000	270	<10	266	5.7	8.8
R2 9068		<5	<100	<5	<200	2	<50	14	<10	23	10.0	2.2
R2 9069		<5	<100	<5	<200	<2	130	78	<10	5	0.4	8.6

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Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: V90-01990.0

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

SAMPLE NUMBER	ELEMENT UNITS	Se PPM	Te PPM	Ba PPM	Cr PPM	Sn PPM	W PPM	Cs PPM	La PPM	Ce PPM	Sm PPM	Eu PPM
T1 9016		<10	<20	120	4300	<200	<2	2	7	<10	1.5	<2
T1 9017		<10	<20	<100	1700	<200	<2	<1	<5	<10	<0.2	<2
T1 9018		<10	<20	110	2900	<200	<2	<1	<5	13	0.5	<2
T1 9019		<10	<20	100	3800	<200	<2	<1	<5	<10	0.7	<2
T1 9020		<10	<20	530	1500	<200	<2	2	10	18	2.0	<2
T1 9021		<10	<20	830	910	<200	<2	3	21	31	3.6	<2
T1 9022		<10	<20	1900	480	<200	<2	5	120	230	14.0	3
T1 9023		<10	<20	<100	3100	<200	<2	<1	<5	<10	0.3	<2
T1 9024		<10	<20	540	6610	<200	<2	1	9	<10	2.5	<2
T1 9025		<10	<20	1100	750	<200	<2	3	15	31	3.8	<2
T1 9026		<10	<20	1300	150	<200	3	3	47	84	7.1	<2
T1 9027		<10	<20	430	2300	<200	<2	<1	6	<10	1.1	<2
T1 9028		<10	<20	260	2200	<200	<2	2	9	12	1.2	<2
T1 9029		<10	<20	<100	2700	<200	<2	<1	<5	<10	<0.2	<2
R2 9061		<10	<20	<100	150	<200	<2	<1	<5	<10	0.4	<2
R2 9062		<10	<20	2100	1400	<200	<2	<1	<5	<10	0.3	<2
R2 9064		<10	<20	110	2400	<200	<2	<1	<5	<10	<0.2	<2
R2 9065		<10	<20	<100	5280	<200	<2	<1	<5	<10	0.3	<2
R2 9066		<10	<20	470	1500	<200	<2	14	<5	<10	1.2	<2
R2 9067		<10	<20	<100	>20000	<200	<2	<1	<5	41	<0.2	<2
R2 9068		<10	<20	970	340	<200	<2	1	7	19	2.6	<2
R2 9069		<10	<20	1700	1400	<200	2	<1	62	120	15.0	3

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Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 21-SEP-90

REPORT: V90-01990.0 | PROJECT: NONE GIVEN | PAGE 1C

SAMPLE NUMBER	ELEMENT UNITS	Tb PPM	Yb PPM	Lu PPM	Sc PPM	Hf PPM	Ta PPM	Th PPM	U PPM	Na PCT	Br PPM	Rb PPM
T1 9016		<1	<5	<0.5	7.4	<2	<1	0.7	0.7	0.30	2	13
T1 9017		<1	<5	<0.5	6.6	<2	<1	<0.5	<0.5	0.23	1	<10
T1 9018		<1	<5	<0.5	7.8	<2	<1	0.9	<0.5	0.24	<1	<10
T1 9019		<1	<5	<0.5	10.0	<2	<1	0.7	0.9	0.42	<1	<10
T1 9020		<1	<5	<0.5	14.0	<2	<1	2.3	1.4	0.65	<1	<10
T1 9021		<1	<5	<0.5	17.0	2	<1	4.4	2.1	1.20	<1	27
T1 9022		1	<5	<0.5	14.0	3	1	14.0	2.3	0.44	<1	69
T1 9023		<1	<5	<0.5	7.6	<2	<1	<0.5	<0.5	0.19	<1	<10
T1 9024		<1	<5	<0.5	23.0	<2	<1	1.5	0.7	1.20	<1	12
T1 9025		<1	<5	<0.5	19.0	2	<1	2.5	1.5	1.40	3	27
T1 9026		<1	<5	<0.5	10.0	6	1	12.0	3.9	0.82	<1	57
T1 9027		<1	<5	<0.5	10.0	<2	<1	1.4	2.1	0.37	4	19
T1 9028		<1	<5	<0.5	7.7	<2	<1	1.4	0.8	0.33	4	14
T1 9029		<1	<5	<0.5	6.3	<2	<1	<0.5	<0.5	0.20	<1	<10
R2 9061		<1	<5	<0.5	1.0	<2	<1	<0.5	1.2	<0.05	<1	<10
R2 9062		<1	<5	<0.5	4.4	<2	<1	<0.5	<0.5	0.16	<1	<10
R2 9064		<1	<5	<0.5	1.4	<2	<1	<0.5	0.5	<0.05	<1	<10
R2 9065		<1	<5	<0.5	3.4	<2	<1	<0.5	<0.5	0.05	<1	<10
R2 9066		<1	<5	<0.5	2.8	<2	<1	1.0	0.8	<0.05	<1	<10
R2 9067		<1	<5	<0.5	2.6	<2	<1	<0.5	<0.5	0.14	<1	<10
R2 9068		<1	<5	<0.5	10.0	<2	<1	1.0	0.9	1.60	<1	21
R2 9069		2	<5	<0.5	27.0	6	6	14.0	7.2	1.50	<1	69

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: V90-01990.0

DATE PRINTED: 21-SEP-90

PROJECT: NONE GIVEN

SAMPLE NUMBER	ELEMENT UNITS	Zr PPM	Au PPB	Pt PPB	Pd PPB	Cu PPM	Ni PPM	Co PPM	Cr PPM
T1 9016		<500	IS	IS	IS	87	1388	82	1113
T1 9017		<500	IS	IS	IS	16	1850	105	1041
T1 9018		<500							
T1 9019		<500	17	20	8	32	1105	117	1420
T1 9020		<500	5	9	5	41	835	55	946
T1 9021		<500	10	24	10	71	394	35	473
T1 9022		<500	12	12	5	71	85	34	69
T1 9023		<500							
T1 9024		<500	IS	IS	IS	47	520	41	817
T1 9025		<500							
T1 9026		<500							
T1 9027		<500	7	19	6	20	1447	69	1346
T1 9028		<500	10	30	15	30	1147	51	853
T1 9029		<500	6	19	10	15	2148	81	1260
R2 9061		<500							
R2 9062		<500	5	14	4	10	145	10	199
R2 9064		<500							
R2 9065		<500							
R2 9066		<500	7	12	4	380	441	67	356
R2 9067		<500	13	12	5	32	609	33	6331
R2 9068		<500							
R2 9069		<500	4	11	6	326	136	42	160

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

WHOLE ROCK ICP ANALYSIS

Northern Analytical Labs. Ltd. PROJECT WO #08370 File # 90-4682 Page 2

105 Copper Road, Whitehorse YT Y1A 2Z7

SAMPLE#	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	Ba ppm	Sr ppm	La ppm	Zr ppm	Y ppm	Nb ppm	LOI %	SUM %
9063	92.31	2.06	2.02	.67	.05	.80	.51	.06	.02	.02	.068	43	10	34	25	6	120	.9	99.52
9074	93.24	.47	.68	.90	1.69	.17	.33	.04	.01	.03	.048	264	20	21	15	5	81	2.0	99.67

.200 GRAM SAMPLES ARE FUSED WITH 1.2 GRAM OF LIBO2 AND ARE DISSOLVED IN 100 MLS 5% HNO3.
- SAMPLE TYPE: PULP

DATE RECEIVED: SEP 18 1990 DATE REPORT MAILED: Oct 1/90. SIGNED BY..... C. Leong

D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Northern Analytical Labs. Ltd. PROJECT WO #08370 File # 90-4682 Page 1

105 Copper Road, Whitehorse YT Y1A 2Z7

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
9070	4	3	13	43	.3	3	2	1814	.31	4	5	ND	1	112	1.2	2	2	1	16.99	.016	2	41	8.02	67	.01	4	.10	.01	.02	2
9071	54	11	28	36	.1	14	4	1392	.89	2	5	ND	1	8	.3	2	2	4	.91	.016	4	649	.36	152	.01	4	.13	.01	.01	1
9072	5	34	10	97	.4	9	4	325	4.22	3	5	ND	8	7	.2	2	2	17	.64	.038	14	66	.92	147	.02	7	1.36	.01	.28	1
9073	3	12	20	22	.6	469	29	8414	1.64	7	5	ND	1	492	.7	5	2	30	26.48	.038	2	322	.52	57	.02	7	.42	.01	.02	1
9075	6	3	16	33	.4	19	5	1515	.34	3	5	ND	1	116	1.0	2	2	1	10.75	.016	4	71	3.89	355	.01	3	.09	.01	.02	1
9076	23	7	89	24	.1	48	14	54092	.96	5	7	ND	1	199	.2	3	2	5	.29	.007	2	295	.13	610	.02	2	.13	.01	.10	2
9077	4	5	18	18	.1	34	7	99999	.33	2	14	ND	1	65	.2	8	2	2	1.92	.010	2	86	.20	155	.01	2	.03	.01	.01	130
9078	11	24	14	35	.5	5	2	6998	.42	6	5	ND	1	453	.4	2	2	5	18.57	.009	4	144	.17	58	.01	12	.14	.01	.02	3
9079	19	6	24	54	.2	14	3	2781	.44	5	5	ND	1	52	.2	2	2	3	.15	.005	2	228	.04	1698	.01	10	.09	.01	.04	2
9080	15	6	17	30	.1	7	1	271	.41	5	5	ND	1	6	.2	2	2	2	.19	.001	2	171	.08	54	.01	4	.14	.01	.04	1
9081	21	14	14	29	.2	19	3	525	.79	10	5	ND	1	5	.2	2	2	4	.06	.006	5	248	.05	96	.01	5	.15	.02	.05	1
9082	31	6	17	16	.1	11	1	94	.74	3	5	ND	1	3	.2	2	2	3	.05	.001	2	354	.01	26	.01	7	.02	.01	.01	1
STANDARD C	19	60	40	133	7.2	72	31	1058	3.97	40	16	8	37	53	18.3	15	20	56	.52	.098	39	59	.90	182	.08	36	1.90	.07	.14	13

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1 TO P2 PULP P3 BEAD

DATE RECEIVED: SEP 18 1990 **DATE REPORT MAILED:** Oct 1/90. **SIGNED BY**.....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Northern Analytical Laboratories ltd.

September 17,1990

Work Order # 08370

Van Krichbaum
Box 6752
Fort St. John, B.C.
V1J 4J2

Assay Certificate For Samples Provided

Sample	ppb Au
9070	56
9071	49
9073	59
9075	64
9076	52
9077	67
9078	64
9079	76
9080	65
9081	61

Au -- 15g Fire Assay/AAS

Applied Science Technologists and Technicians of British Columbia
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DATE RECEIVED: SEP 18 1990

DATE REPORT MAILED: Oct. 1/90.

GEOCHEMICAL ANALYSIS CERTIFICATE

Northern Analytical Labs. Ltd. PROJECT WO #08370 FILE # 90-4682 Page 3
105 Copper Road, Whitehorse YT Y1A 2Z7

SAMPLE#	AU** ppb	PT** ppb	PD** ppb
9072	4	2	2
9082	5	2	2

- SAMPLE TYPE: BEAD
AU** PT** PD** BY FIRE ASSAY & ANALYSIS BY ICP FROM 30 GM SAMPLE.

SIGNED BY..... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Geology Map/Helicopter Flight Path
- numbered in order by legs flown
1: 250,000
105-G
105-H
105-A
105-B
Wolverine Lake
North Lakes
Money Creek
North River
Black River
TINTINA FAULT
AIRSTRIP
Little Jimmy Lake
Porcupine
ROSS RIVER
Old Gold Cr.
Rainbow Cr.
Gold Cr.

PROVISIONAL MAP

105 A/13

1:50,000

CANADA

90-01 on Helicopter Flight

105 A/13

130°00′ 447000m. E. 48 49 50 55′ 51 52 53 54 50′ 56 57 58 45′ Joins 105 H/4 60 61 62 63 40′ 65 66

61°00′ N. 6762000

90-51

90-52

90-01

90-12

String Bog

AIRSTRIP

SIMPSON (PEN.)

TUCHIPUA

Hasselberg Lake

Esker

Little Jimmy Lake

PROVISIONAL MAP

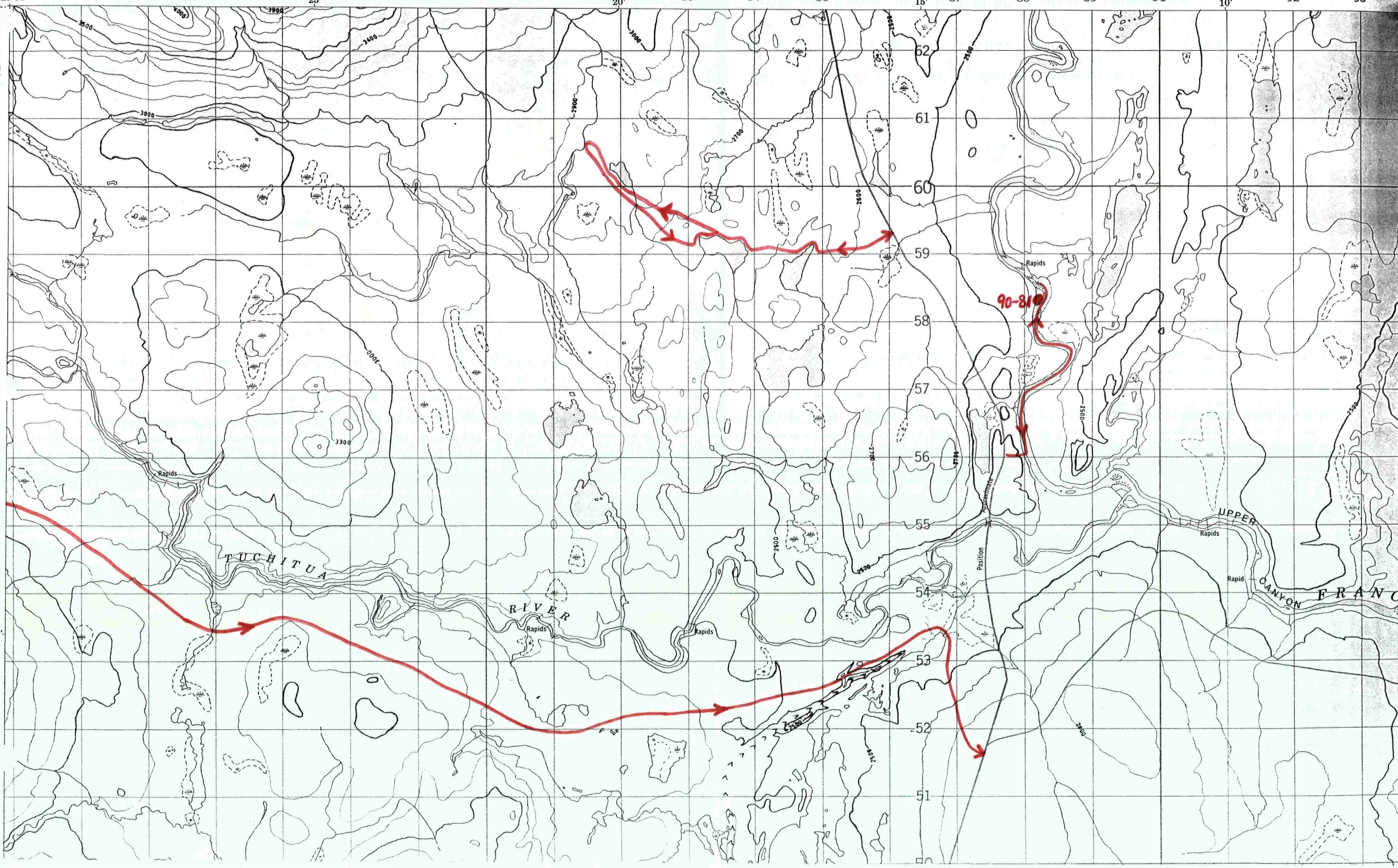
105 A/14

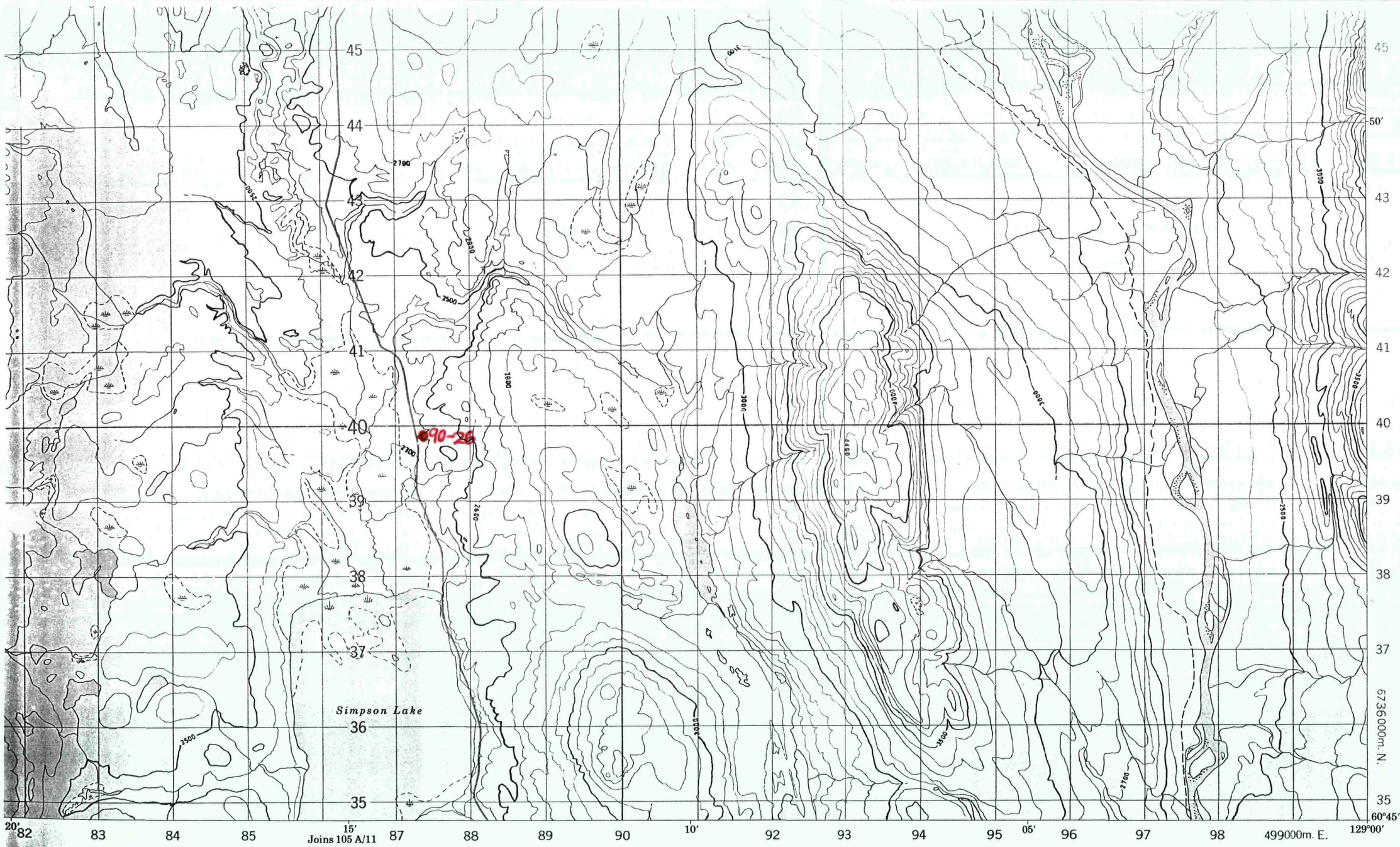
1:50,000

CANADA

Joins 105 H/3

105 A/14





UPPER CANYON

YUKON TERRITORY

Scale 1:50,000 Échelle

Miles 1 0 1 2 3 Miles

Metres 1000 0 1000 2000 3000 4000 Mètres

Yards 1000 0 1000 2000 3000 4000 Verges

This Provisional Map is equivalent to a standard map in accuracy of content.

Some names on this map are not yet official. Corrections or additions are invited by the Surveys and Mapping Branch.

CONTOUR INTERVAL 100 FEET
Elevations in Feet above Mean Sea Level
North American Datum 1927
Transverse Mercator Projection

Cette carte provisoire équivaut une carte régulière au point de vue précision de l'information.

Certains noms inscrits sur cette carte ne sont pas encore officiels. La Direction des levés et de la cartographie saurait gré au public de lui signaler corrections et additions.

ÉQUIDISTANCE DES COURBES 100 PIEDS
Élévations en pieds au-dessus du niveau moyen de la mer
Niveau de référence nord-américain 1927
Projection transverse de Mercator

Établie en 1967, par la DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE, MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES, d'après des photographies aériennes prises en 1960-61. Levés sur le terrain en 1960. Imprimée en 1970.

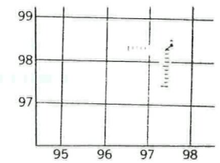
Ces cartes sont en vente au Bureau de distribution des cartes, ministère de l'Énergie, des Mines et des Ressources, Ottawa.

ONE THOUSAND METRE
UNIVERSAL TRANSVERSE MERCATOR
ZONE 9

GRID ZONE DESIGNATION	100,000 M. SQUARE IDENT
9 V	VT

EXAMPLE OF METHOD USED
TO GIVE A REFERENCE TO NEAREST 100 M

THE FOLLOWING GRID REFERENCE IS A SAMPLE ONL
AND DOES NOT REFER TO A POINT ON THIS MAP

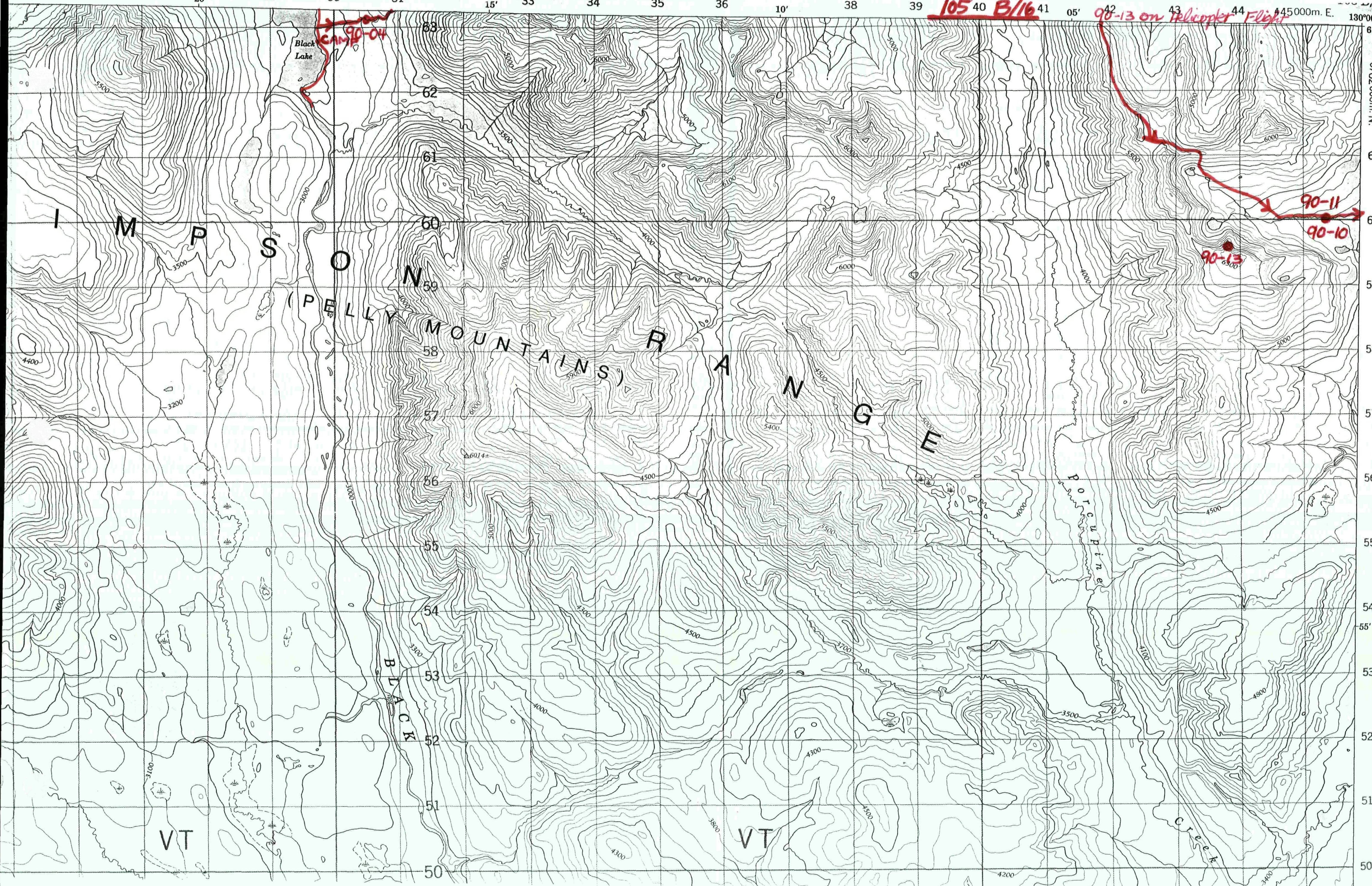


REFERENCE POINT	CHURCH (as ab
EASTING: Read number on grid line immediately to left of point. Estimate tenths of a square from this line eastward to point	9
NORTHING: Read number on grid line immediately below point. Estimate tenths of a square from this line northward to point	9

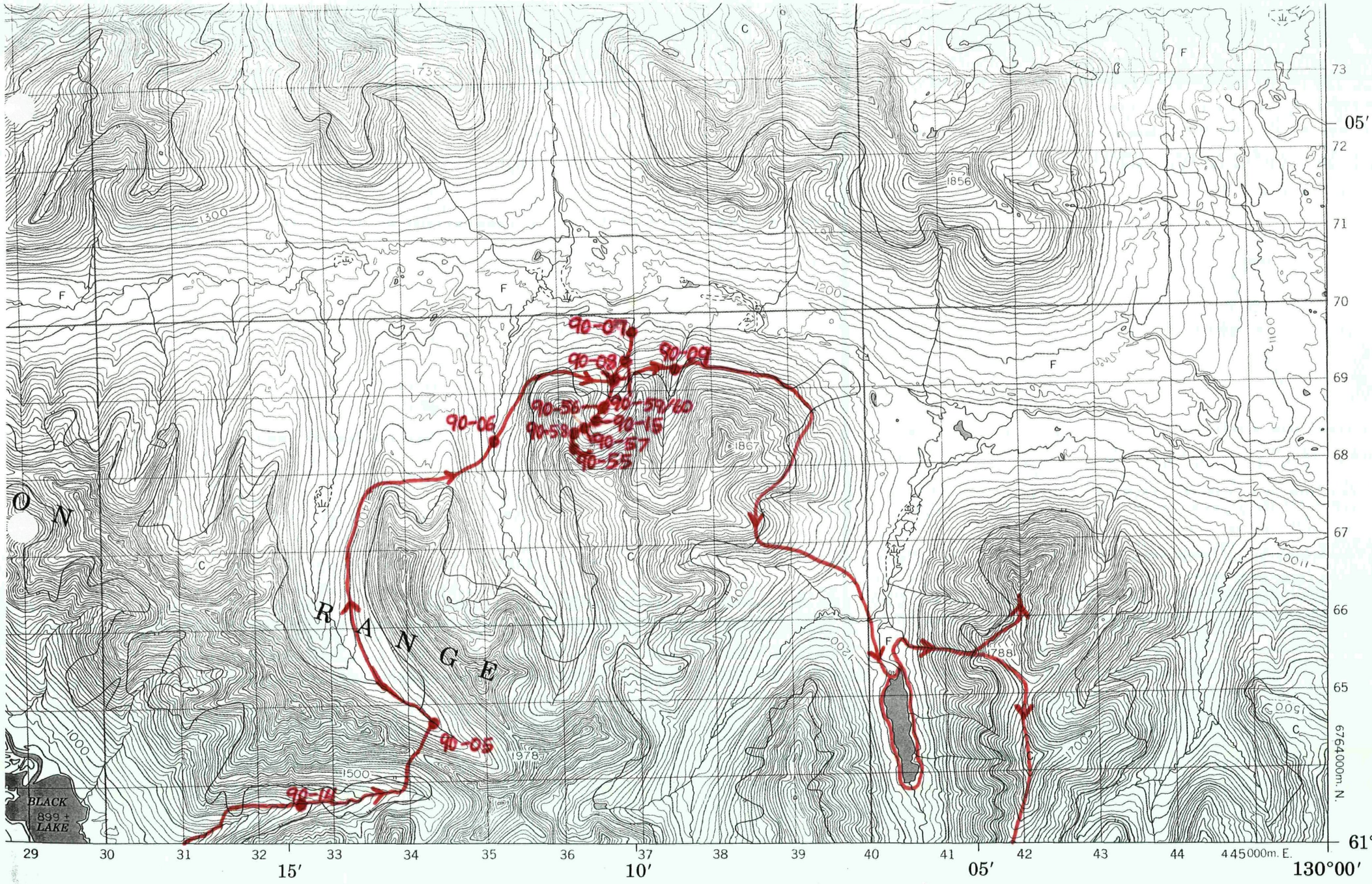
EXAMPLE MILITARY GRID REFERENCE 975

Nearest similar grid reference 100,000 metres (about

105 A/14
EDITION 1



Joins 105 G/1
105 B/16
90-13 on Helicopter Flight
CAMP 90-04
Black Lake
90-11
90-10
90-13
I M P S O N R A N G E
(PELLY MOUNTAINS)
BLACK
Porcupine
Creek
VT
VT
445000m. E.
6762000m. N.
130°00'
61°00'
55'



WATERS CREEK

YUKON TERRITORY TERRITOIRE DU YUKON

Scale 1:50 000 Échelle

Miles 1 — 0 — 1 — 2 — 3 Miles

Metres 1000 — 0 — 1000 — 2000 — 3000 — 4000 Mètres

ALTITUDES EN MÈTRES

ÉQUIDISTANCE DES COURBES ..... 20 MÈTRES

SYSTÈME DE RÉFÉRENCE GÉODÉSIQUE NORD-AMÉRICAIN 1927

PROJECTION TRANSVERSE DE MERCATOR

POUR TOUT RENSEIGNEMENT CONCERNANT LES REPÈRES ET BORNES ALTIMÉTRIQUES, S'ADRESSER AUX LEVÉS GÉODÉSIQUES, DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE, OTTAWA.

ÉTABLIE PAR LA DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE, *MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES*, OTTAWA. PUBLIÉE EN 1984.

CES CARTES SONT EN VENTE AU BUREAU DES CARTES DU CANADA, MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES, OTTAWA, OU CHEZ LE VENDEUR LE PLUS PRÈS.

A-25289
162 — 8/79 — 159

REVISION RÉVISI

105 G/7	105 G/8	105 H/
105 G/2	105 G/1	105 H/
105 B/15	105 B/16	105 A/

CONVEF
ÉCHELLE

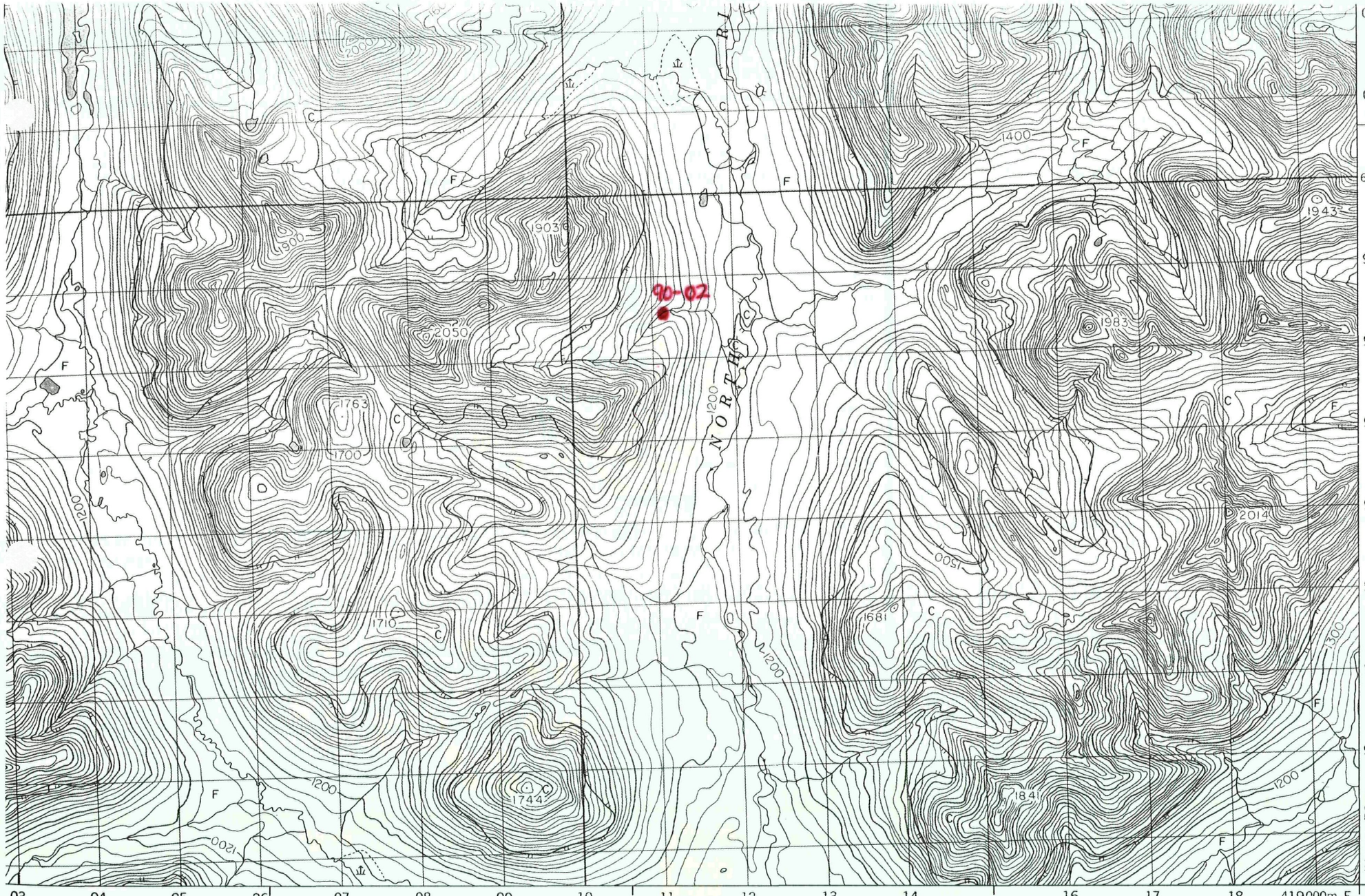
Metres 30 20 10 0 — 50

Feet 100 50 0 — 100 — 200 — 30

90-02 on Helicopter flight

110 A-25289 8/79 114

REVISION RÉVISION



105 G/11	105 G/10	105 G/9
105 G/6	105 G/7	105 G/8
105 G/3	105 G/2	105 G/1

CONVERSION SC
ÉCHELLE DE CONV

Metres 30 20 10 0 50 100

Feet 100 50 0 100 200 300 400

GRASS LAKES

YUKON TERRITORY TERRITOIRE DU YUKON

Scale 1:50 000 Échelle

1 0 1 2 3 Milles

Metres 1000 0 1000 2000 3000 4000 Mètres

ALTITUDES EN MÈTRES

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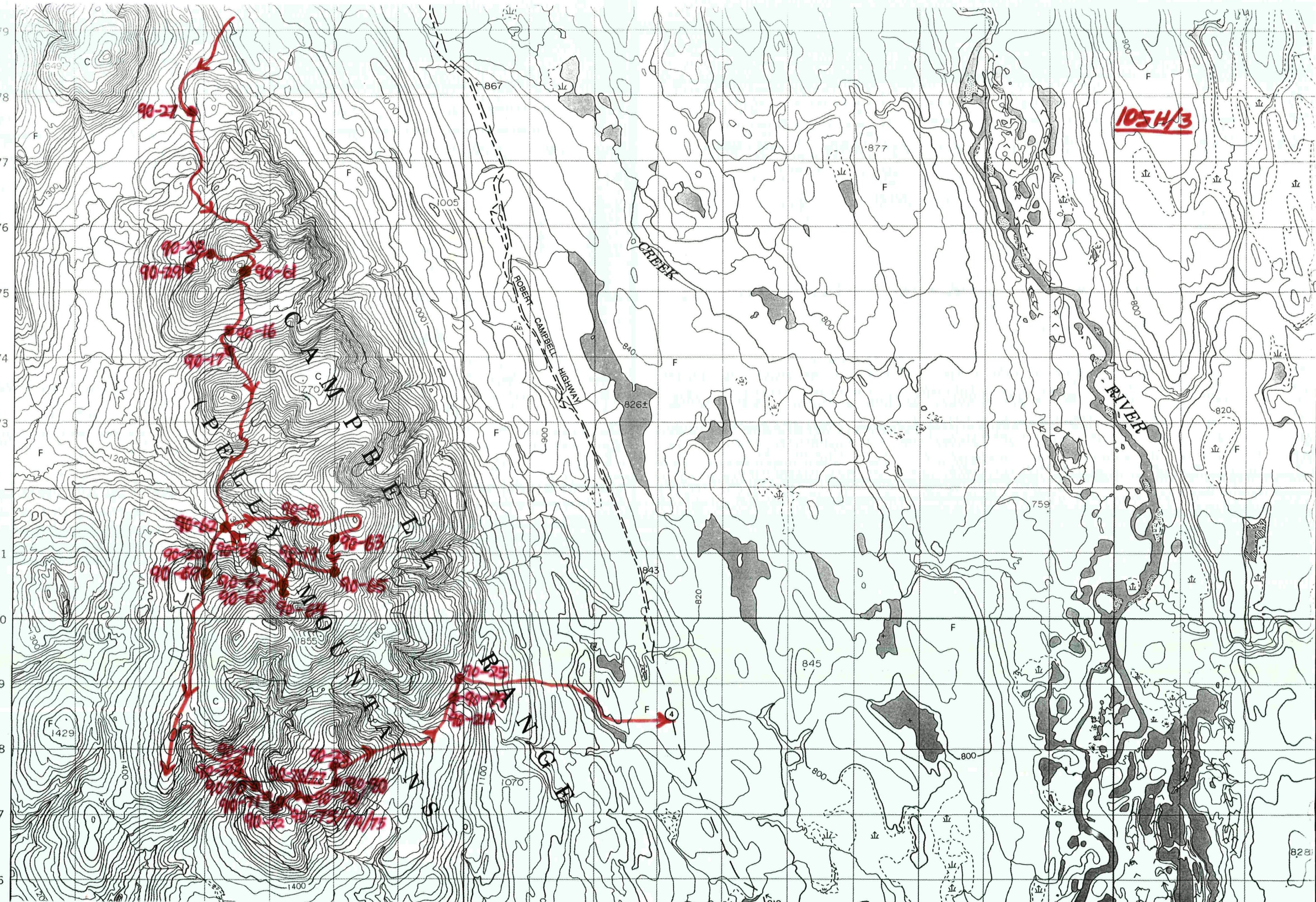
105 H/3

METRIC/MÉTRIQUE



105 H/4 EDITION 1 **METRIC** Canada **MÉTRIQUE**

90-54, 90-53, 90-03 on Helicopter Flight

105H/4