

TECHNICAL REPORT

PROSPECTING PROJECT
1994

WILLIAMSON LAKE

NTS 105M-11

TARGET # 1
TARGET # 2

By

LAWRENCE DUBLENKO

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HISTORY OF AREA.

The east end of this valley, from Williamson Lake to the end of the south arm of Mayo Lake, had been explored earlier by only 4 parties: 1) Bostock and his crew, doing a geological survey in 1938 - 1941, 2) a Mayo resident named Bessner in 1946-'47, who also mined the second major creek east of Williamson Lake, on the north-facing slope; 3) Leo Wozniak in 1962 and 1963; and 4) Regional Stream Sediment and Water Geochemical Data in 1987 and 1988; and now, prospected by Lawrence Dublerko, in 1993 and 1994.

LOCATION

The target areas I prospected are located between the east end of Williamson Lake, about 41 air km east of Mayo, and extending about half way to the end of the south arm of Mayo Lake. The main creek, that the target creeks flow into, starts in a marshy area at the top of the east end of Watson Plateau, flows east towards the south end of Mayo Lake, curves north, then west to eventually flow into the east end of Williamson Lake, draining about 115 square km. of the east end of this valley.

ACCESSIBILITY

The area does not have any access other than on foot, by boat on Mayo Lake, then walking west towards Williamson Lake or by air to the east end of Williamson Lake.

GEOLOGY

The geology of the valley from Williamson Lake east to the south end of Mayo Lake is described as:

- brownish, quartz - mica schist, lenticular pebbles of quartz and altered feldspar, 1/8" to 1/2" long, schist and quartzite, on Geology Map 890A by Bostock;
- in the GSC Open File 1962, Regional Stream Sediment and Water Geochemical Data, as gritty quartzite, argillite, shale, phyllite, Hadrynian - precambrian alluvial deposits and dendritic streams;
- in the Geology of Mayo 105M by Charley Roots and Donald Murphy, it is described as grey-weathering, fine to coarse grained, locally calcareous, quartz meta-sandstone (psammite); pale green to grey phyllite limestone (hachure pattern). (This group did not check the valley, only the top of Watson Plateau.)

Some of the rock in Target # 1 may be carbonate since there is a bed of limestone over-looking the creek in the area of map coordinate 950620 Map 105M/11 Williamson Lake.

At Target # 2, glacial deposits go up to at least 2050m north of the main creek, to the 3700 ft. elevation, as evidenced by a glacial outcrop jutting about 100m out of the hillside, perhaps a glacial crag covered over with till.

A rock wall jutting out of the hillside 1100m north of the main creek and 10m east of the creek bed may be an erratic.

The trench at Target #2, in a spring, is composed of very densely packed

material as in the trench at the base camp on Target # 1. The main rock in this trench is grey, between a phyllite and a schist.

The valley is long and narrow, glaciated east to west. The altitude from the valley floor to the tops of the bordering plateaus is from 2275 ft. to 5300 ft. Both targets are within the treeline, trees ending at about 4100 ft. and buck brush continuing to the top, with bed rock outcrops appearing from about 3500 ft. to the top. Rock float covers glacial till along the traverses, except in the alluvial fans and springs.

WORK DONE

The prospecting work performed this year consisted of panning streambed, pit and trench sand and gravel, as well as taking samples, grab samples and panned concentrates for assay. All traverses were chained with a hip chain and flagged. Claims on Target # 1 were white flagged at 10m and orange flagged at 25m intervals, with claim posts also flagged with lime-yellow coloured flag

Target # 1 creek was prospected starting about 400m from it's confluence with the main creek, about 100m upstream from the main creek's mouth at Williamson Lake. I took samples and panned upstream, a creek distance of 2530m this year and to 3560m last year, with more sampling this year.

I staked claims starting 400m from it's confluence with the main creek, going upstream, 4 placer claims and 2 codiscovery claims:

PO16850 Tamara

PO16849 Jim

PO16848 Larry

PO16847 Terry

PO16846 Lawrence

PO16845 Connie

The trail going east to Target # 2 was flagged at irregular intervals, only to mark the trail. The first 400m were orange flagged, the rest with white. Side traverses to the north and south, off the east-west trail were blue flagged except E1200 S220 (east 1200m, then south 220m) where I ran out of blue and used white.

To Target # 2 creek, the trail had to be plotted, checked on foot, then replotted because of extreme slope, marshes and ponds. Along the way sampling was done by digging pits, panning or taking grab samples, not only along the trail, but from traverses north and south into the main creek.

Target #2 creek is an overgrown, dry old creek bed, with only snow slides, spring run-off, and springs running parallel to it. The top of the creek valley begins in a broad 1500m wide saddle at the top of the 5000 ft. high plateau and narrows to about 50m wide at the 3000 ft. elevation.

RESULTS

Assay results of concentrates from the trench at Target # 1 show 0.145 oz. of gold per ton and from the trench at Target # 2 show 0.031 oz. of gold per ton. All colours, other than the measured pieces, were included. I did not have the free gold (colours) weighed separately, so a price per ton or per cubic yard of material processed cannot be estimated.

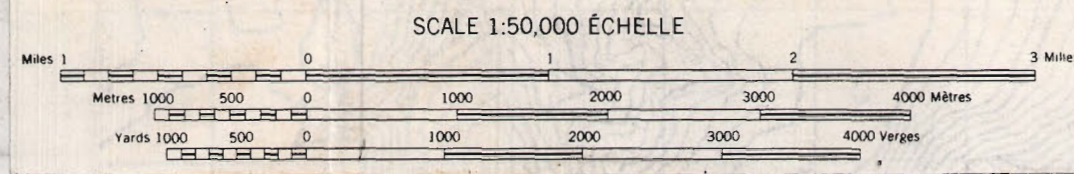
RECOMMENDATIONS

The results of this prospecting project, in hindsight, would have been better if trenches or pits had also been dug further from the streams and near the tops of the alluvial fans. The digging is also easier and the overburden to bed rock not as deep. More time should have been spent in observation and recording. Weather conditions were a hindrance with only 4 sunny, non-rainy days in July

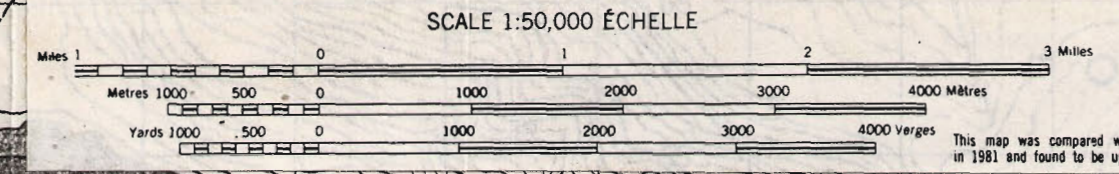
Next year, all gold processed will be weighed. The terrain will be familiar, so a lot of time will be saved. Trenches and pits, including the frozen pit at E1143 which will have thawed more, will be dug deeper and assays will be done for other ores.

I am looking for a small excavator or crawler tractor with a dote bucket and backhoe that I can barge to near the south end of Mayo Lake, then walk it west about 11 km to Target # 2 and then another 4 km to Target # 1. I flew the route during Labour Day weekend to determine the feasibility of travelling this way as opposed to about 60 km, walking the machine from Mayo to Janet Creek, then to Williamson Lake.

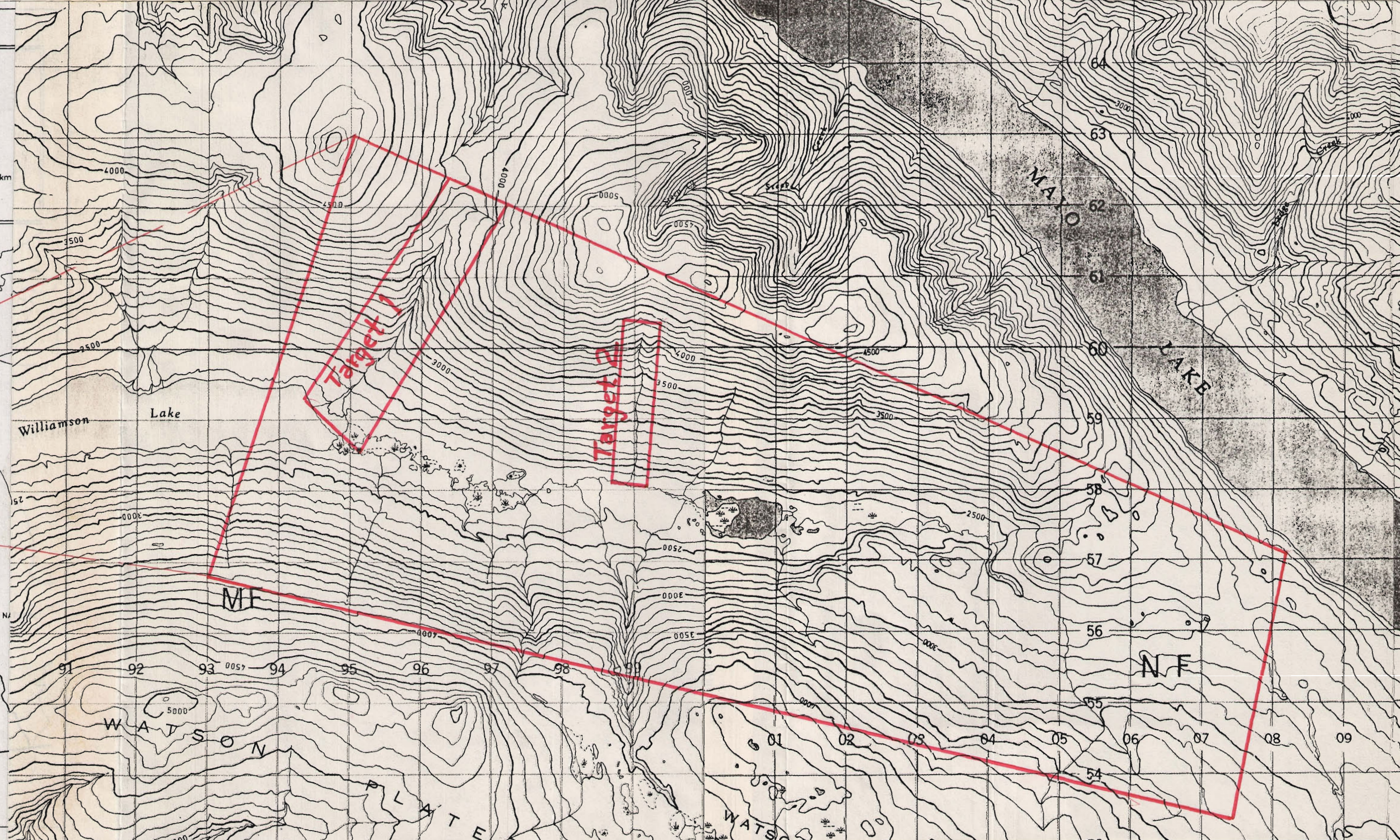
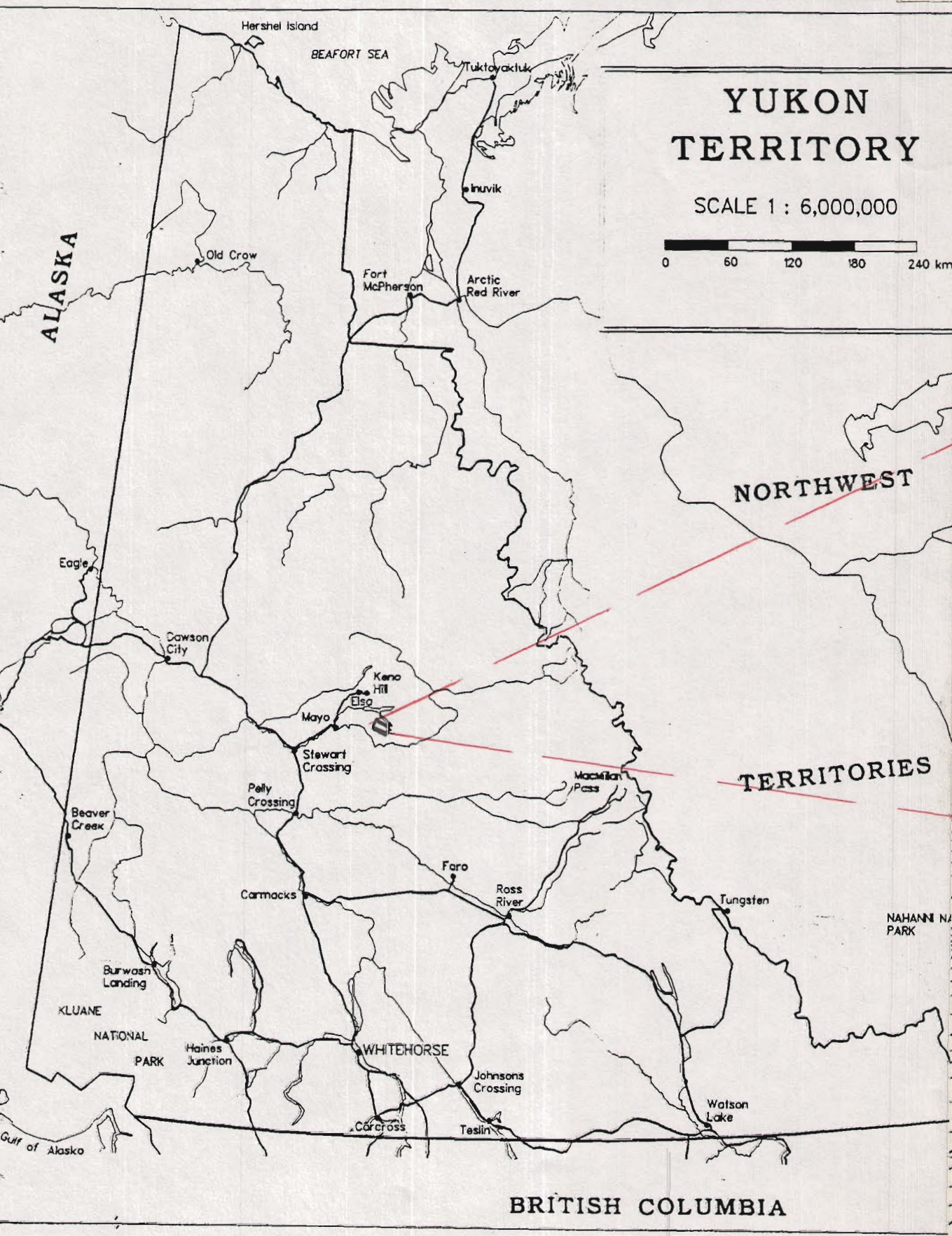
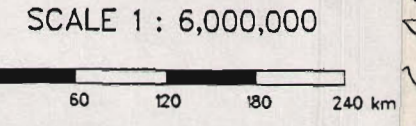
WILLIAMSON LAKE
YUKON TERRITORY

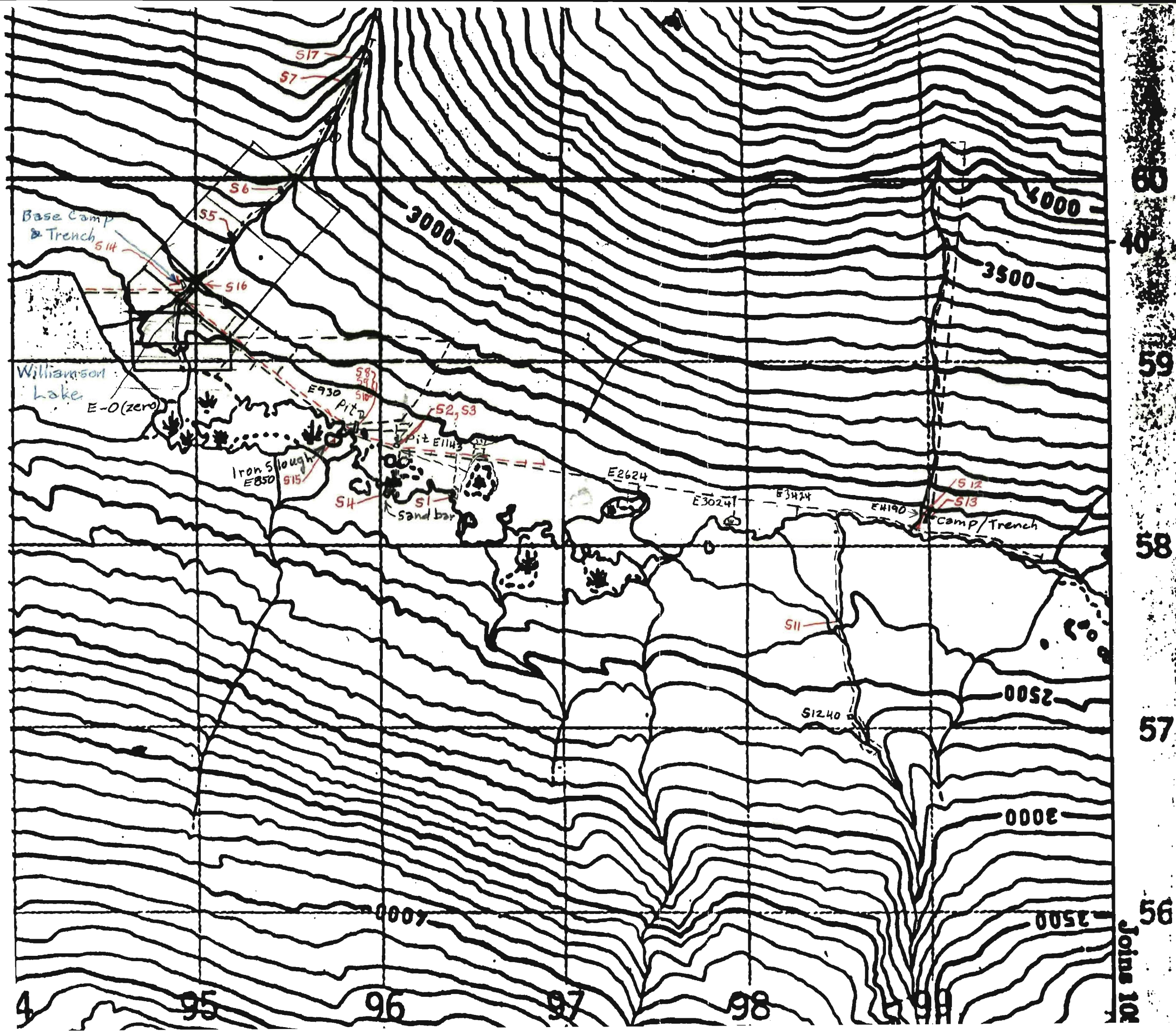


SOUTH NELSON CREEK
YUKON TERRITORY



YUKON
TERRITORY





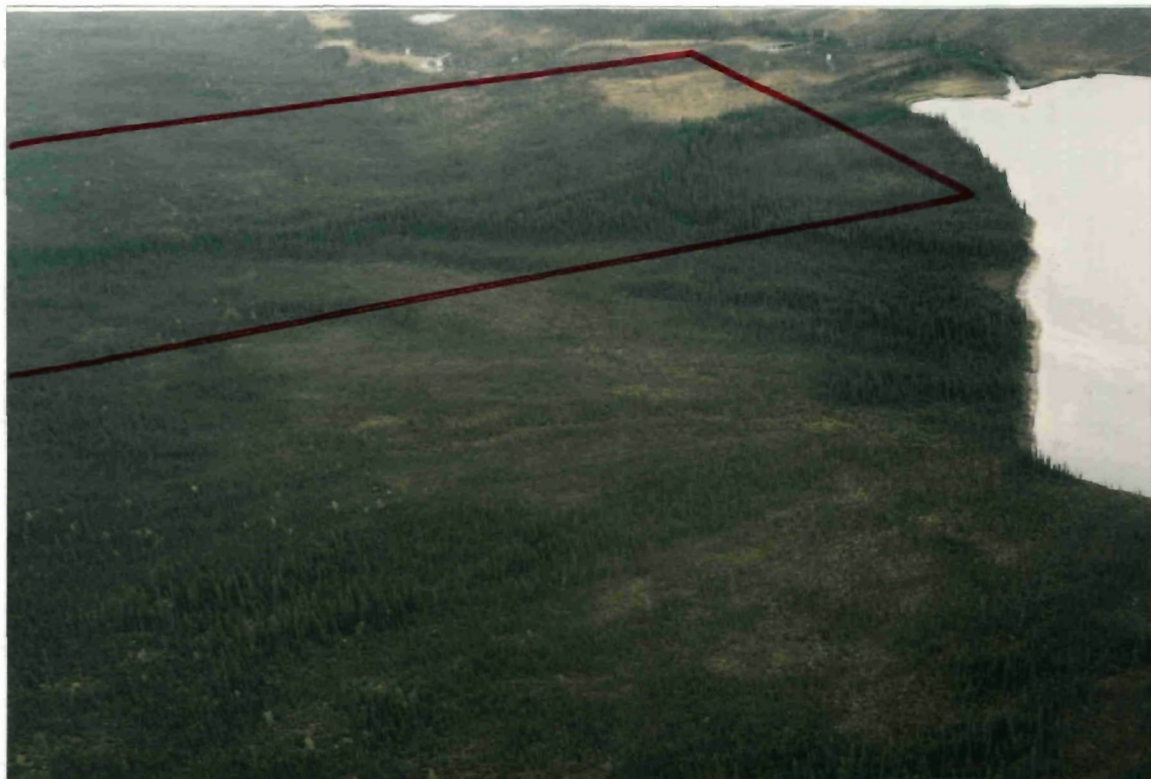
NTS MAP
 105 M/11
 Scale 5cm : 1 km
 1:20,000
 Trails: flagged ---
 cleared ---
 2m wide
 S: Sample for assay

Johns 104



6

Aerial photo of the top end of Target # 1 creek, looking north. The creek flows to the south-west.



Aerial photo of the lower end of Target # 1 creek, looking south-east with Williamson Lake on the right. The main creek that drains the east end of the valley, is at the top of the photo, entering the lake.



Aerial photo of lower end of Target # 2 creek, looking south. The main creek flows from left to right across the photo. The dry creek bed, joins the main creek to right of the middle of the photo, as outlined.



Trench material being sluiced in Target # 1 creek. Trench is behind me.



The next 2 photos are shown on
Map: Traverses, Sample Sites
and Claims.

Pit near bottom end of a
solifluction area, at E950 Pit.

Pit in dry creek bed at E1143,
showing thawed frozen muck.



22/08/94

Assay Certificate

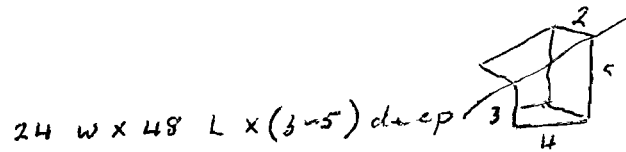
Page 1

L A Dublenko

WO#25343

Sample # Au oz/ton

#1	<0 001
#2	<0 001
#3	<0 001
#4	0 001
#5	<0 001
#6	<0 001
#7	<0 001
#8	<0 001
#9-	0 003
#10	<0 001
#11	0 001
#12	0 001
#13-	0 031
#14-	0 145
#15	<0 001
#16	0 001
#17	<0 001



--16 x 36" x 12"
--24 x 30 x 12"

Certified by





INTERNATIONAL PLASMA LABORATORY LTD

CERTIFICATE OF ANALYSIS
1PL 94H2203

2036 Columbia Street
Vancouver B C
Canada V5Y 3E1
Phone (604) 879 7878
Fax (604) 879 7898

Northern Analytical Laboratories 17 Samples

0 t Aug 23 1994 Project W 0 #25343
In Aug 22 1994 Shipper Norm Smith
PO# PO #00823 Shipment ID C030900

0 Rock 0 So 1 0- Core 0 RC Ct 17 Pulp 0 Other
Raw Storage -- 12Mon/D1s
P lp Storage -- 12Mon/D1s

[042417 23 14 49082394]
Mon Month D1s Discard
Rtn Return Arc Arch ve

Document Distribution
1 Northern Analytical Laboratories
105 Copper Road
Whitehorse
YT Y1A 2Z7
ATT Norm Smith
Ph 403/668 4968
Fx 403/668 4890

Analytical Summary

Table with columns: ##, Code, Met Title, Limit, Units, Description, Element, ##. Contains 30 rows of analytical data for various elements like Ag, Cu, Pb, Zn, As, Sb, Hg, Mo, Tl, Bi, Cd, Co, Ni, Ba, W, Cr, V, Mn, La, Sr, Zr, Sc, Ti, Al, Ca, Fe, Mg, K, Na, P.



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**ALL WEATHER
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Notebook No 351

Lawrence A Dublenko

Prospecting 1994, Mayo, Yukon

NTS Williamson Lake

105 M/11 Targets 1, 2

Book ONE



Name Lawrence A. Dublenko

Address 21-12 Ave.

Whitehorse, Yukon, Y1A 4A5

Phone 633-2510

Project Prospecting for placer deposits
in the area east of Williamson
Lake

- Yukon Mining Incentives Program

CONTENTS

My 1978 prospecting project is a continuation of last year's, with the exception that last year I started prospecting the north-facing slope of Watson Plateau, east of Williamson Lake, Target 1 being $\frac{1}{2}$ km east and Target 2 being $\frac{3}{4}$ km east of the lake.

With the difficulty I had with the terrain, I ended up concentrating on this year's Target 1, which is on the south-facing slope $\frac{3}{4}$ km east of the north east corner of the lake and on the opposite side of the plateau from Anderson Creek. The south-facing terrain is much easier to traverse and the showings

on this year's Target 1 were encouraging.

The area is east of an old burn, with the burn crossing Target 1 about 1 km north of the main creek, that drains the east end of the valley into Williamson Lake, and continued along the lower part of the slope for about 5 km.

would include
in report

My Target 1-1994 creek is about 4½ km long, flowing south-west, joining the main creek near the east end of the lake, and has produced a large alluvial fan that appears to have pushed back the north east corner of the lake about ½ km.

My Target 2-1994 creek is about 4 km east of the

lake. It is about 2 km long as shown on the NTS map, but is really an old grown in creek that runs in spring and dries up into a series of short 20m-40m long spring streams in summer.

My wife, Connie, ~~is~~ is my helper during this summer's prospecting project.

For hauling out most of our supplies and equipment, I have contacted Blacksheep Aviation, Whitehorse, to fly us in their Otter. The light loads, 1 passenger and a pack, Maya Air Service.

Fri. 24 June '94

- phoned Blacksheep Aviation, the Otter has engine problem but should be in Mayo. 27 June

Sat. 25 June

- load up and leave Whitehorse, arrive Mayo late in evening, phone Mayo Air Service to do a reconnaissance flight tomorrow, 1030 p.m. and to fly out ~~so~~ 1 load of supplies.

Sun. 26 June

- weather not good for flying, visit in Mayo.

Mon. 27 June

- phoned Blacksheep Av. Otter should be repaired and in Mayo

Tue. 29 June

- decide to wait instead of flying out with supplies during recon flight.
- fly out with M.A.S. (Mayo Air Service) and do recon - check for trails and take pictures of terrain.
- fly over old jeep trail to Janet Creek, then over old "cat" trails that go another 7 km, to about 840550 on NTS 105 M/11 Williamson Lake.
- fly to end of small lake at 810577 on NTS 105 M/10 South Nelson Creek, 2 km past Target 2 - no trails other than one well travelled game trail, west for 1/2 km from Target 2.
- return, fly down Williamson Creek; pick out a trail at 830577 NTS 105 M/11; it goes to Janet Lake, but is criss crossed with trees from a recent burn.

- Trail continues south along Janet Creek to about 1 km north of Stewart River, crosses Janet Creek and continues west to Mayo on the ~~at~~ north side of Stewart River. (I've been on this trail from Mayo to the burn trail with a quad last year. Without clearing the burnt trees from the trail along Williamson Creek, the trail is impassable.)

Tue. 28 June

Visited around Mayo, asking "old-timers" about access to Williamson Lake they might know of, no luck. Talked with mining recorder, Gerald, for more information. He knew of only one person who had walked to almost my Target 2

and mined there on a creek that was my last year's Target 1, in 1946 and 1947, but did not stake any property there. There is no record of any about his mining.

Wed. 29 June

- phoned Blacksheep, Otter still not repaired and won't be till possibly Fri. 1 July. Decide to fly another recon. to check for accessibility from Mayo Lake. It would mean barging almost the entire length of the lake, but the ground route would be shorter.

- Flew with Michelle, Mayo Air Service; rechecked from Janet Creek, flying near to Stewart River, to Williamson Lake, saw more old cat trails zig zagging

probably logging or fire trails. They went no further east than the trail along Williamson Creek - flew over plateau between Mayo Lake and my 2 target areas, viewing photographing the plateau and down to and across the main creek, from a lower altitude - about 500 ft.

This eastern route looks much better than the western route. A small creek at NTS 105 M/10 South Nelson, reference 080575 looks like a good starting point for a land route.

Thurs. 30 June

- phoned Blacksheep again, no Otter till possibly Mon. 4 July.
- decide to fly out with basic supplies, with Michelle. He

is not available till tomorrow, Fri. 1 July.

① Fri. 1 July

- 7:00 a.m. meet Michelle at Mayo dock, with 2 - 40 gal. packer boxes, 2 back packs and "carry" on - hold on equipment (shotgun, pry bar, shovels, gold pans. I go first flight with $\frac{1}{2}$ the supplies, Connie on the 2nd with the rest of the freight.
- Start from east end of Williamson Lake, flag trail due east, for quad and trailer trail.
- 7:50 m to Target 1 creek and base camp-site (same site as last year).
- set up lean-to with tarp, clear area by 12:30.
- go back to lake with empty packs to bring supplies - packer boxes

- too heavy and clumsy to carry full; 1 more trip to lake.
- see bear tracks, and freshly torn apart log along trail.
 - at camp, small sluice box I brought in last year, shovel, is where I had stashed them.
 - Water level in creek looks a little lower than last fall.
 - creek goes N 45° E from camp.
 - chain upstream from camp to test pit we dug last year, 20 m. An old dry creek bed, grown in, intersects the present creek, and is the starting point for the test pit, and the beginning of this year's trench, going 90° from the west side of the creek - W 45° N.
 - weather cloudy and drizzle, off and on all day.
 - finish lean-to and build stone "stove" with square rock and a piece of metal we brought for a cooking surface.

Sat. 2 July (2)

- set up sluice in creek at test pit.
- dam water to go through sluice.
- start trench at end of test pit
 - 24" wide, 24" - 30" deep, 3' long.
- put all trench material, except bigger rocks, through sluice.
- material consists of quartz and gold coloured mica schist.

The area is an alluvial fan, mixed with morainic deposits and silt/clay float at its outer edges. The material in the trench is well packed, unstratified, and hard to loosen and dig.

- panned 10 samples - 8-14 colours per pan, plus lots of gold coloured mica
- dug about 2' x 2' x 2' deep
- black sand, coarser near bottom, about 1 mm across.

③

Sun. 3 July

- hiked downstream, panned in stream every 50m-75m; little showing, 1-3 colours, lots of gold coloured mica.
- About 300 m downstream, stream bed is shallow and branches off, more level, flat, clay and small pea gravel; stream disappears.
- more willows, denser bush, marshy.
- go back to camp.
- radio phone, fair reception.

④

Mon. 4 July

- went downstream again, panned further from yesterday, 0-3 colours.
- stream disappears into fine gravel and sand.
- heavier going with increase in willows, rose bushes and smaller pines.
- continually climbing over deadfall.
- land is quite flat.

- estimate we must be about 200m further south, from yesterday.

- return to camp.

- dig 2' further in trench, sluice all material up to small fist size, wash bigger pieces in trench before tossing them out.

- 5 pans, yield up to 13 colours per pan

- lots of black sand granules - 1mm cubes

- save all concentrates from pans.

- light rain in A.M.

⑤

Tue. 5 July

- went downstream again, continue to follow "dry" stream bed.

- dig 5 pans full and pan out with water in pit, 0-2 colours.

- land is flat, dense bush, can't see more than 20m.

- fresh bear tracks 250m south of camp.

- after supper, dig 2' further in

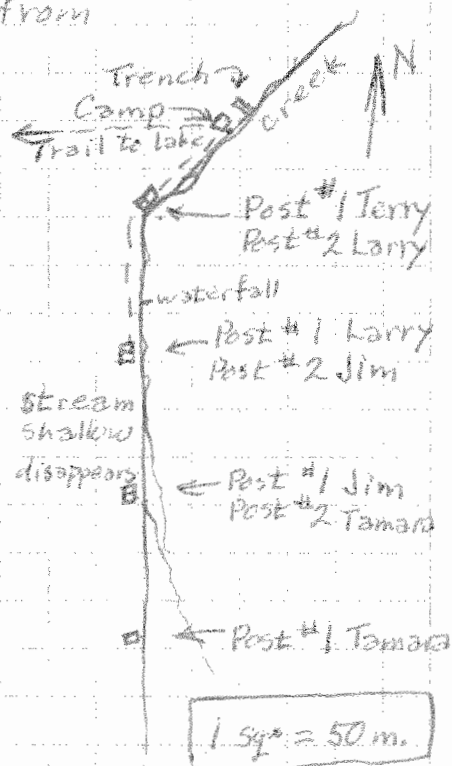
- trench; larger rocks mostly schist and or white quartz up to dinner plate size and 15 cm thick and well rounded.
- trench is about 6' long x 28" deep.
 - panned 5 pans, 7-14 colours, save concentrate.
 - light rain in A.M.

(6)

Wed. 6 July

- longest and hardest rain, in A.M.
- chain west side of creek, downstream;
- white flag every 10m.
- orange flag every 25m.
- 100m south, cut Post #1 Terry, add yellow flag for stake posts
- cut tree at 5' level for Post #1 Terry.
- cut remainder of tree for Post #2 Larry, wire it to Post #1 Terry.

- chain further, flag as earlier 150m to Post #1 Larry and Post #2 Jim.
- cut tree for Post #1 Larry and remainder, of tree, cut and wire to Post #1 Larry.
- we're soaked from rain and wet bush and grass.
- after supper, go about 15m upstream from trench, old creek bed, overgrown with grass and bush, but joins front of trench.
- dig channel 1' wide x 6" deep to direct water into dry creek bed we've trenching.
- within an hour, 2' more trench



- is dug and sluiced, also the water in the bottom of the trench clears within seconds. Impressive, easier on the back.
- 5 pans, 5-14 colours.

(7)

Thurs. 7 July

- rained through night.
- phoned Michelle, left message for Sun. 10 A.M. pick up, to take us to Mayo, and to hold Otter for us for Mon. 1:00 P.M. to take remainder of supplies, quad, pump, trailer, chainsaw, fuel, sluice boxes, shovels.
- chained and flag downstream from Post #2 Jim to Post #1 Jim and Post #2 Tamara. Cut tree for posts.
- creek appear and disappears as we chain south to Post #1 Tamara.
- land is flat, dense dead fall,

willows, small pines, rose bushes and grass, 10m visibility or less if bear or even moose was come upon.

- we're soaked from rain, water on leaves and grass.
- after supper, with help from diversion channel, dig and sluice another 2' of trench.
- sunshine from mid-afternoon - best day so far.

(8)

Fri. 8 July

- sunny morning.
- chain and flag 50m upstream from camp; cut Post #2 Terry and codiscovery Post #1 Lawrence; wire both to a tree.
- went back to trench, dug another 2' further; trench now about 15', (including last year's pit) x 24" wide x 30" deep.

- clean carpet from sluize box, pan the sluiced material and save it. - many colours, 1 is about $1\frac{1}{2}$ mm x 2 mm, rough in texture, crescent shape. - the biggest to date, lots of black sand.
- went downstream and took pictures at each claim post.
- chain and flag upstream from Post #1 Lawrence, Codiscovery, orange flag every 25 m.
- at 290 m, 7 m west of stream, found an old test pit, partly filled in; cleaned it ~~out~~ ^{down} to 36"; took sample, 4 pans, 2-H colours per pan. - included with sample to assay.
Sample 5-290

(9) Sat. 9 July

- sunny morning, radio phone battery dead. - have solar panel, no adapter, its in Mayo with rest of freight.
- small pack, headed upstream, west side of creek.
- chain and flag from ^{test} pit found yesterday, for codiscovery of 380 m, cut tree for Post #2 Lawrence, Codiscovery and Post #1 Connie, Codiscovery.
- chain and flag upstream (stream bends a bit eastward) follow compass heading.
- pick grab sample, panned in creek as we chained to Post #2 Connie, Codiscovery - cut tree for post - 30 m west of creek.
- decide against measuring prospector's lease of 2 miles ^{from}
- ~~was~~ coming down, ~~at~~ ^{from} Post #1 Connie 300 m, largest white quartz boulder in stream about 60 cm x 40 cm x 40 cm (part visible above stream bed)

- on way up from Post #1 ^{Lawrence} ~~Cornie~~, stream increases in grade and rock sizes; creek valley is deeper, eroded, more shaded and heavier under growth of willows and pines;
- more big pines, 16" diameter
- many big pines uprooted.
- took pictures of remainder of claim posts.

(10)

Sun. 10 July

- beautiful, sunny morning
- organized camp for a night's absence
- took pictures of camp and trench.
- tried going west from Post #1 Terry, but willows and other trees too tangled, so go back to camp, then follow flagged trail to lake 750 m.

- met Michelle, he flew in at 10:00 A.M.; Connie 1st flight, I, 1 hour later; arrive Mayo 11:45 A.M.
- saw Ernie (pilot - Blacksheep) at 1:30; arrange to fly out with rest of supplies and equipment tomorrow at 5:00 P.M.
- visited.
- slept in a bed.

~~(11)~~

Mon. 11 July

- went to Mining Recorder's Office and filled out claim forms: 2 codiscoveries and 4 power of attorney; got more information from mining recorder
- go to hospital and get 2 water sample kits to test creek, and get some ointments for insect bites
- rounded up help to load quad into Otter
- plane is late, load at 8:30 P.M.

- too much of a load for Otter, so load some on Michelle's Twin Piper; 1 more load for Michelle.
- Connie goes with Ernie, I go with Michelle.
- unload onto beach near start of trail to camp; Michelle went back for 1 more load.
- arrange to have Ernie pick us up 10 Aug. - will keep in touch by radio.
- set up trailer (had to be dismantled for plane ride) and quad rear rack.
- fueled up chainsaw, and strapped to
- loaded trailer and quad. ~~quad~~
- left trailer till after trail is cleared.
- drive quad through bush following flagged route.
- got camp at 2:00 A.M.
- difficult to maneuver quad through bush, Connie decided to walk rather than drive.

(11) Tue. 12 July

- started cutting quad size trail to lake; ran out of chainsaw fuel about 1/2 way to lake.
- drove to lake, hitched up trailers, fueled up chainsaw and began cutting trail to camp. Arrived in camp just before rain.
- lightning around us at times.
- unloaded trailer and put supplies under shelter.
- went back to lake for ~~remainder~~ ^{more} of supplies and equipment.
- stored fuel in shade in old narrow creek bed near camp.
- ~~to~~

(12) Wed. 13 July

- went back to lake for rest of equipment.
- phone reception poor.
- flagged beginning of quad trail downstream 150 m, 25 m up from Larry #1 path, to where creek

bank was a few inches above shallow water, sandy fine gravel bottom and easy to cross.

- electrical storm and rain.

(12)

Thurs. 14 July

- cut quad trail to creek crossing heading to Target 2.
- set up solar charger for phone battery.
- we clear trail so as to avoid cutting big trees, and yet not too far off flagging.

(13)

Fri. 15 July

- cloudy
- set up pump and new sluice box
 - 10" x 48" with riffle bars, connected to slick plate 10" to 16" x 2' long connected to 16" x 48" sluice box

with expanded metal; (both sluice boxes have no mad bottomless carpet); attach 16" x 36" grizzly to top of 10" x 48" sluice, then hook up suction dredge with 4 inch suction hose. The sluice boxes are set on 2 trees cut and joined with 24" lengths of 1" x 6" boards.

- The dredge works OK, but the 4" suction hose is not flexible enough. The pump would work much better if it was 3" with an 8 h.p. motor. Sluice boxes, and slick plate seem to work good.
- storm rumbling again
- mosquitoes, the worst I remember, good thing we have nets.
- we dredge the bottom of the trench where all the fines settled as we dug the trench.

(14) Sat. 16 July

- expect company today.
- plane - Michelle - flew over camp as we worked in the trench.
- drove to lake, picked up visitor and returned to camp, in rain and hail.
- ran more trench material through sluice; hard packed material in bottom of trench difficult to loosen and pick up.
- I wonder if the gold and black sand moves to the bottom of the loosened material in water?
- more work accomplished with extra help on hand.

(15) Sun. 17 July

- rain stopped about 10:00 A.M.
- packed and headed upstream to Post #2 Connie,
- chain and flag at 25m intervals.
- creek changes to more northerly, at 220 m above Post #2 Connie

increases in grade; not much sand or gravel in creek, boulders bigger.

- underbrush thicker.
- cross to east side at ⁷220 (7 = part above Post #2 Connie, 220 = 220 m above Post #2 Connie)
- 7-270 ⁷25 clearing, trees sawn - about 30 m diameter, 25 m east of creek, above incline to creek.
- found old portable plywood sluice box made of 1/2" plywood and 2"x2" bolted to fold flat, plywood pieces are 6"x48", with expanded metal nailed into bottom piece.
- chain and flag to 7-750
- weather closing in again, decide to return to camp.
- 7-725 E50, spring, dig 2' deep pit; small schist rocks and gold coloured mica, no black sand just grey coloured sand.
- cross to west side of creek

- 7-650 W10, uprooted tree, dig 2' into gravel, pan sample, same result as at 7-725 E50; sample
- 7-275 E30 soil slip below } 7-650 W10 uprooted tree, dig 2', pan, no gold or black sand. Sample 6-275
- at camp, clean small sluice, } W30 pan, save concentrate.

- Last year we had walked up and flagged to about 7-1800 ~ 1800 m above Post #2 Connie, about 1 km ~~is~~ further than today's hike. We had gotten to where the slope flattened and buck brush started, and within about 300 m to where the creek ^{begins and} comes down from the east south east.

(16) Mon. 18 July

- drove visitor back to lake for 10:00 A.M. pick up.
- begin to flag trail from creek crossing ~~at~~ # at Post #1 Larry, 3-25 (25 m up from Post #1 Larry) east 8° south, heading for Target 2,
- slope too steep and too ~~many~~ a tangle of trees and deadfall.
- return to crossing, flag 20 m east, then 85 m south 30° west to where slope flattens out.
- heavy rain.
- after supper, improve trail across creek.

(17)

Tue. 19 July

- rain through night
- set up solar panel, pack quad.
- cut trail from creek crossing to 85 m ^{at} S 30° W.
- old burn area following bottom of solifluction, from east side of

alluvial fan.

- drove east 30° south and white flagged through bush following lower edge of solifluction and beginning of flat meadow and marshy areas.
- tree growth sparse and not very old.
- stop every one or two hundred metres and walk north or south, blue flagging, to determine terrain.
- found two boulders north of trail, about $8-10^3$ each, hope to return and dig around them.
- cleared 400 m $E 30^\circ S$ - measured with quad odometer (E 400)
- will measure east bound trail from where it turns eastward.

(18)

Wed. 20 July

- rained during night.
- drive to E 400, walk and flag to a large slough, $\frac{1}{2}$ grassed in, fist (about 10 acres)

or bigger rocks in bottom, rust brown coated rocks; about $E 800-E 900$ m.

- walk back to quad; cut trail to "iron slough", 450 m further.
- many twisted small pines at E 700.
- leave quad, walk & flag ~~N 30° E~~ 200 m east at $E 80^\circ S$, then 400 m $N 30^\circ E$, fairly steep slope; lots of dead fall; walk west and flag 600 m, many damp spring spots, $4^{32} - 10^{32}$; some showing black dirt with fine gravel, others brown dirt with fine gravel.
- upper part of solifluction has more fine gravel (some boulders) than lower part.
- it starts to rain; we're closer to camp than the quad, so continue west; intersect trail about E 300, follow trail to camp
- can't use phone, its on quad.

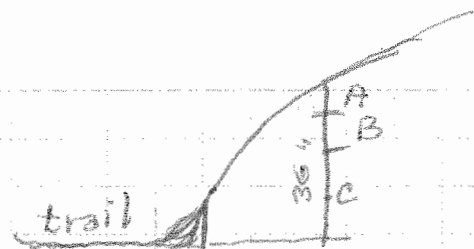
Thurs 21 July

(A)

- wake up to sunshine
- pack and hike to quad.
- grab sample out of "iron slough"
 - quart
- chain and flag to E1150; too much deadfall; go back to "iron slough" and follow (about 25 m south)
 - ↑ toe of solifluction.
- chain along toe E 30°S; return to quad.
- cut trail along top of toe, at E900 trail drops off toe and follows edge.
- cut trail to E930
- start pit into front of toe,
 - fairly easy digging, take sample from A-horizon - E930A, brown clay, sand, just below roots of grass (about 5 m N on top of toe are big pines, 50 cm diameter)
 - B-horizon sample, E930B,
 - and C-horizon sample E930C, down about 36" at the upper

end

trail



- fist size or double ^{that} sized rocks are encrusted with "water scale"
- biggest rock, so far, is about sandwich plate size.
- rocks are mainly very coarse, crumbly, quartz mica schists.
- cut trail to E1150, past end of solifluction area.
- few trees, easy trail cutting.
- At E850 the toe of the solifluction ends about 2 m above "iron slough", which looks like it could be a kettle, with some of its bank and trees dropping into the slough and pond.

Fri. 22 July

(20)

- drove to E1143
- try to pin-point our position on NTS map in relation to main creek by taking reading off Watson Plateau - not very accurate.
- walked N and flagged for about 100 m, to lower edge of solifluction, soil quite firm, few trees, - return.
- flag E 8°S from E1143, skirt around soft areas and sloughs.
- return

(21)

Sat. 23 July

E20°S

- drove to E1143 cut trail to E1200
- took light pack, walked S to find main creek, at ^{3rd channel} S220, a raised point of drier sand; gravel; fist sized rocks big pines; area about 20 m across E to W, between 2

kettles, grassy ponds about 250 m across, trees tilting into them and gravel banks sliding down into them. At the end of this point is a narrow, 15 m, channel going E-W joining the ponds, we cross and walk across a raised flat buck brush and small pine, wet spots area to an area raised slightly, of large pines at S 360. At S400 we find ourselves in the inside bend of the main creek. A small stream, 30 cm across, was dropping into the main creek, which is about 4 m across and up to 1 m deep. The land width is about 10 m across. Large, 2' diameter, pines with claw marks up to 9'-10' up stand in the middle.

- ~~gravel~~ sand bar of brown sand, pan; no gold or black sand

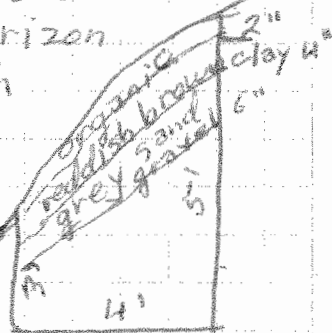
- return to trail
- at E1143 trail crosses an old grown over creek.
- dig test pit. 24" x 36" beside trail (north side)
- about 1" of leaves, dead grass and moss, then, 3" of fine brown, pea size gravel and sand; 1" black organic material, 15" grey fine mud to dark grey frozen muck. (At first I thought I hit shale.) - tried to break through, too hard; left it to thaw.
- muck sample E1143
- clouds of smoke coming from the south over east end of Watson Plateau.

(22)

Sun, 24 July

- plot progress on map, check notes

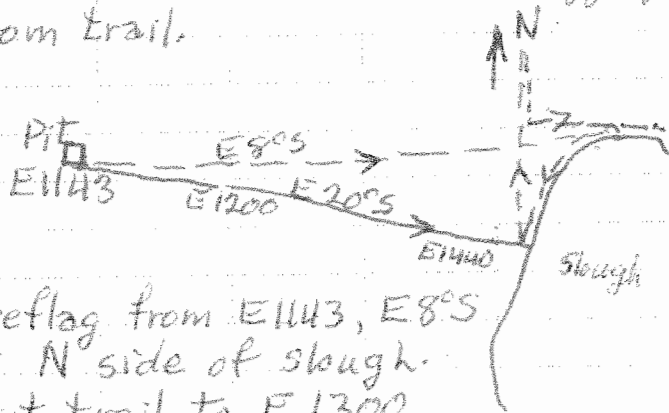
- take grizzly of sluice and move it behind camp for winter storage
- drive to E930 pit, lengthen it to 4' and dig down to 5' level at high end and 3' at low end, no change in C horizon material, though temperature much colder. - steam coming trail off my back as I dig.



- coarse grained crumbly quartz, mica schist with some pieces mineral encrusted as though they sat partly immersed in water
- starts to rain
- sample at 5' level, exchange with first E930 C.
- take sample in pale to pan at camp.

(23) Mon. 25 July

- drove to E1143, bail out 4" water, muck thawed $\frac{3}{4}$ " dig it out.
- chained and flagged ~~to~~ from E1200, E20°S to E1440, cut off by slough.
- flag N about 150m, low marshy area
- return 50m to 2 large dead pines (14" dia.); climb about 20' up; can't see far enough to determine trail, walk 100m E, came to N side of slough; follow top of embankment SW till we intersect with flagging from trail.



- reflag from E1143, E8°S to N side of slough.
- cut trail to E1300,

run out of chain oil, return to quad at E1143.

- take light load in pack, walk and flag S. at 5180 we come to N.E. side of the east kettle we found on 23 July; can see our white flagging on far shore.
- return to quad and camp.

(24)

Tue. 26 July

- forest fire smoke heavier this AM cloudy
- drive to frozen pit, E1143, bail and dig another $\frac{3}{4}$ " of muck.
 - now 24" w. x 42" L x 25" deep
 - 20" of unfrozen material to frozen muck which is thawing sideways and slumping into pit.
- drive to E1300, take light load, pan, pick mattock, shovel, water and food; walk to E1440, W. side of slough and follow it S, through (southerly)

harrow water run, up over 4 or 5 humps (ice boils?) till we come to the main creek flowing in a northerly direction, 5 spans in ^{dark grey} sand bar. - 3-5 colours; cross creek; walk along ^{50m} till I see it returning on my left; go back to sand bar, follow on N side ^{100m}, crossing small creek from E. N. E., till creek turns W., then S. W., another 25 m, then turn and go N to trail

- bailed out E1143 pit, dug $3\frac{1}{2}$ " of muck.
- at camp, phoned Michelle for chain oil and to have him check our trail from the air if he's out this way.
- rain.

(15)

Wed. 27 July

- sunshine!
- drive to E1143 pit, bail and dig $3\frac{1}{4}$ " muck again.

- drive to end of trail E1300.
- chained and flagged ~~E 805~~ to E1700
- cut trail to E1650 (used engine oil for chain oil)
- smoke getting much heavier, can't see top of east end of Watson Plateau.
- return to E1143 pit, bail and dig out $\frac{1}{2}$ " of muck.
- drive to lake after late supper about 10:00 P.M.
- check NTS map and compass reading, seems to be about a ~~6~~ 6° E discrepancy, in lining up the map and the top of Watson Plateau peaks.
- phone Michelle, he flew over us (didn't see or hear him), says our trail is in line with rocks at intersection of our Target 2 and the main creek; estimates 1 km. to go, by our map, it looks more like $2\frac{1}{4}$ km.
- he dropped off chain oil during day.

26) Thur. 28 July

- rained through night, cloudy morning.
- drove to E1143, bailed and dug pit. $\frac{3}{4}$ " of muck, again.
- drove to E1650, chained and flagged to E1950, cut trail to E1922; chain stretched to limit.
- flagged E for about 400 m.
- return to E1143 pit, bail and dig. N.E. corner of pit shows brown, coarse sand.
- at camp, concentrate 3 pans from trench, few speck of gold, didn't count them.
- smell of smoke getting heavier by the day and the further east we go.

27)

Fri. 29 July

- sunny morning.
- pack 2 back packs for $1\frac{1}{2}$ weeks at Target 2.
- bail and dig E1143 pit; 30" deep

- drive to end of trail, E1922.
- chain and flag E 8°S.
- E2624, chain and blue flag S100 to a small lake; 150 m across N-S. 300 m E-W, no gravel shoreline but trees collapsing into lake.
- return to E2624.
- E3024, blue flag and chain S200, slough; go E 8°S, 50 m, too many wet spots; retrace to S100, the white flag E 8°S, not much better, return to E3024.
- E3424 chain and blue flag S50, come to main creek, flowing about W. 10°S; follow and chain and flag up stream; many coarse gravel bars and finally ~~the~~ fist size rock bars.
- E3900 sand bar, 2 pans, 2 colours each.
- continue E, many springs running into main creek.
- very smokey and getting dark.
- E4524, small creeks from N.
- E4600, beaver dam, beginning of long narrow lake.

- must have ^{crossed} passed Target 2 in dark.
- drop packs and walk another 200 m., lake widens, appears to be narrow or beaver dam ahead; moose grazing in water
- return to packs; put up tent;
- drizzle, thunder, 1:30 A.M.

28 Sat. 30 July

- fair morning, hazy, smokey
- E4600 ^{N40} spring fed creek behind camp, small pit, 12 pans, 1-3 colours per pan. (24" deep)
- break camp, head back along flagged trail.
- E4524 N40, 5 pans, 1-3 colours creek disappears 20 m up.
- E4190, 3 springs within 20 m ~~of each other~~ apart; E4150 runs over flat rocks (seen from air) into beaver pond (main creek), palm sized flat, rounded

- rocks in pond.
- E4170 spring, N10, 2 pans 8 & 12 colours
- E4190 more and longer flat rocks (seen from air); N40 dug just below spring 12" depth - 22 colours
- set up camp on dry, flat spot 10 m W. of spring.
- spring flows down slope 12 m, disappears into rocks
- set out trench in this spring stream 4 m long, slope from bottom 0" to 36" at top end, x 16" wide.
- start digging horizontally from low end.
- pan all small material, 12+ colours per pan, save all concentrates.
- well rounded rocks, 1 piece quartz about 1" long, egg shape.
- quartz is from milky white to clear, up to 30 lbs.
- rain in evening.
- more smoke coming over plateau.

(29)

Sun. 31 July

- heard trumpete swan at night.
- cloudy bright
- trench material very hard packed, use pointed bar and pick mattock to loosen material.
- pans yield at least 12 coburs each.

(30)

Mon. 1 Aug.

- dig and pan trench material
- black sand about 1mm size, gold is flour size
- 1:00 P.M. thunder, 1/15 rain.
- trench 2m long, 1 1/2' deep at uphill end; no large rocks, largest mostly up to 10 lbs., at or near surface covered by moss.
- electrical storm till 5:00, most of storm - continuous thunder, not much rain.
- black sand increasing in size

47

with depth.

- trench 3m long x 2' deep x 15"-16" wide - average

(31)

Tue. 2 Aug.

- continue trench
- 1 pan yielded, among colours, 1 flake 1mm x 1 1/2 mm.
- 1 pan yielded, among colours, 1 flake 1/2 mm x 1 mm.
- black sand and gold are coarser with depth.
- trench about 3 1/2 m long x 30" deep.

(32)

Wed. 3 Aug.

- continue trench to about 4m long x 36" deep; about 1 yd³
- results same
- E4170 N 25, dig pit 1 1/2' W x 3' long x 3' deep. 1 pan every 6" of depth below organic material (moss, peat, black soil & roots.

- 30" level, 1 flake $\frac{1}{2}$ mm x 1 mm, another, about $\frac{1}{3}$ of that.
- much fine gold, like in trenches.
- at 36" depth, water table.
- A-horizon - 4" brown clay,
- B-clay-gravel, with occasional rock up to 30 lbs.
- C-horizon, sample E4170,
- quartz and cinnabar-?
- 5:00 P.M. huge billows of smoke over E end of plateau, hide clouds.
- biting flies with green eyes in this area.

(35)

Thur. 4 Aug.

- light load in pack; clear day, but smokey.
- head N, chain and flag, follow line? of springs, don't see a creek bed.
- "creek" appears to be springs appearing every so often as

-Continued Book TWO

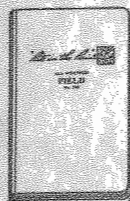
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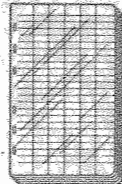
BOUND BOOKS



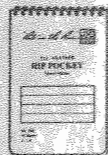
NOTEBOOKS



SPIRAL NOTEBOOKS



LOOSE LEAF SHEETS



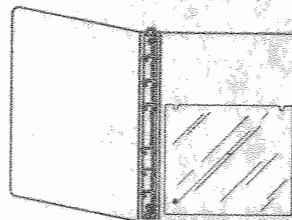
SPIRALS



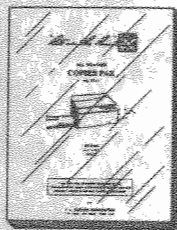
MEMO BOOKS



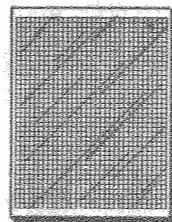
ALL-WEATHER PEN



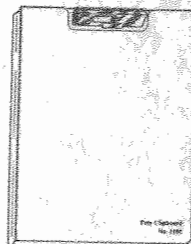
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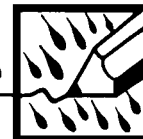
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Prospecting 1994 Mayo, Y.T.

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105 M/11 Target 1, 2,

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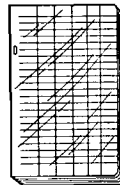
BOUND BOOKS



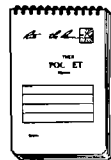
NOTEBOOKS



SPIRAL NOTEBOOKS



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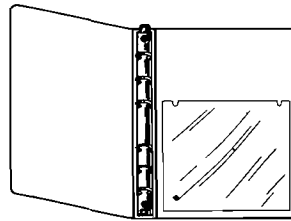
SPIRALS



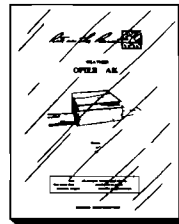
MEMO BOOKS



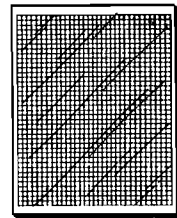
ALL WEATHER PEN



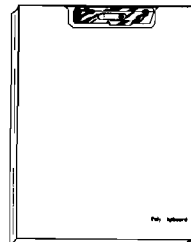
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INCHES

METRIC

cm

Continued
(Thur 4 Aug)

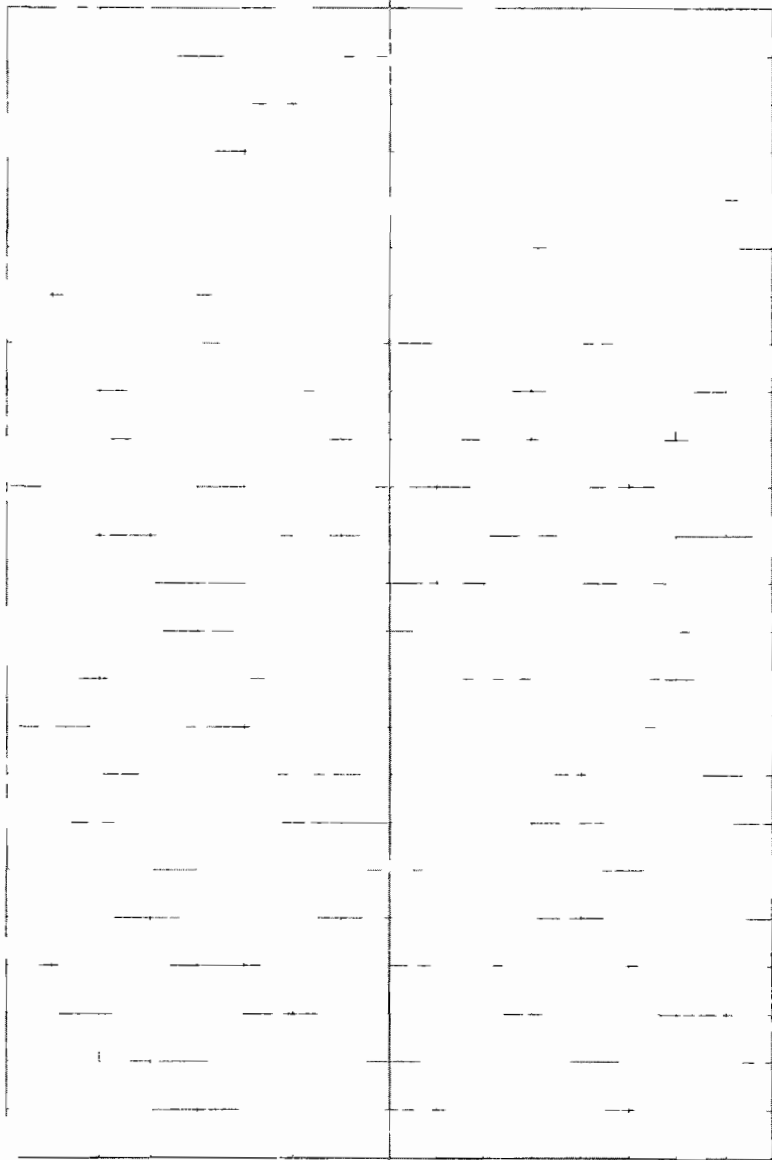
- as flowing streams or wet dirt.
- N 425 stream, panned 2 colours
 - N 530 spring - 2 colours per pan
 - N 550, - 30 m wide slip area with water coming out of moss and gravel; 5 pans 6 colours total
 - N 1230 spring, panned - no colours
 - N 1330 spring and creek 12' W x 1" deep x 10 m long.
 - area of burl covered pines 50% of trees, some burl on burl to top. - about 20%
 - 8 pans 1 colour each
 - N 1650 step on wasp nest in moss, Connie 4-5 steps back gets stung 5 or 6 times
 - N 2050 a knoll 3 nests within jutting out 50m ~~20m~~
 - from hillside, glacial till, 4 m wide, sparse growth, clay-gravel, animal rest area, could see all around
 - N 2425 test pit into hillside,

- 18" x 48" x 48", broken sharp edged rock, not mixed, open spaces between rocks
- N2550 pit 18" x 3' x 3' same rock as at N2425
 - N2555 float, rock with quartz very common
 - grade from camp, measured with dip needle 20° to about 45° , mostly about 30°
 - debate staying and continuing and spend night here without sleeping bags and tent
 - return to camp late, lose trail, ~~and~~ end up about 150m E of camp.

(34)

Fri. 5 Aug.

- light pack again, follow flagging up slope to N.2555, avoid wasp area.
- vegetation from camp changed from pine to white spruce ^{growth}



light green trunk with single needles on trunk and branches, twice as long as pines, junipers also more numerous.

- good view of smoke from behind Watson Plateau to next ridge
- good view of lakes and beaver ponds and last year's Target 1
- took pictures
- NR 850 after a steep 8m-10m climb, terrain suddenly flattens, buck brush the rest of the way
- can see top of plateau E and W.
- creek valley, we should have been in, is about 100m W.
- we are standing at a point jutting southwards out of the plateau at about 4100 ft elevation, giving a good 360° view S. and over the buck brush N. and E, W. with the drop into the creek valley, to Williamson Lake
- we must have been within 100m of the creek, all the way up.

- walk W. to the creek bed, dry, grassy, small brush and trees leaning down hill, lots of dead fall mostly pointing down hill, or piled as in an avalanche
- creek bed accumulates water from a width of about 1500m at the top.
- late, 8:50 PM so start down
- zig zag to avoid tangle of dead fall
- N1100 flattens out to 20°, a rock wall juts out 50m L x 1m high and 6m-8m wide, and 10m E. of creek bed; fractured into blocks, chip sample, too dark to examine outcrop
- miss camp again, end up about 100m E. 12:30 AM.
- left creek valley too avoid more tangle, should go back and follow it to the main creek

Sat. 6 Aug.

35

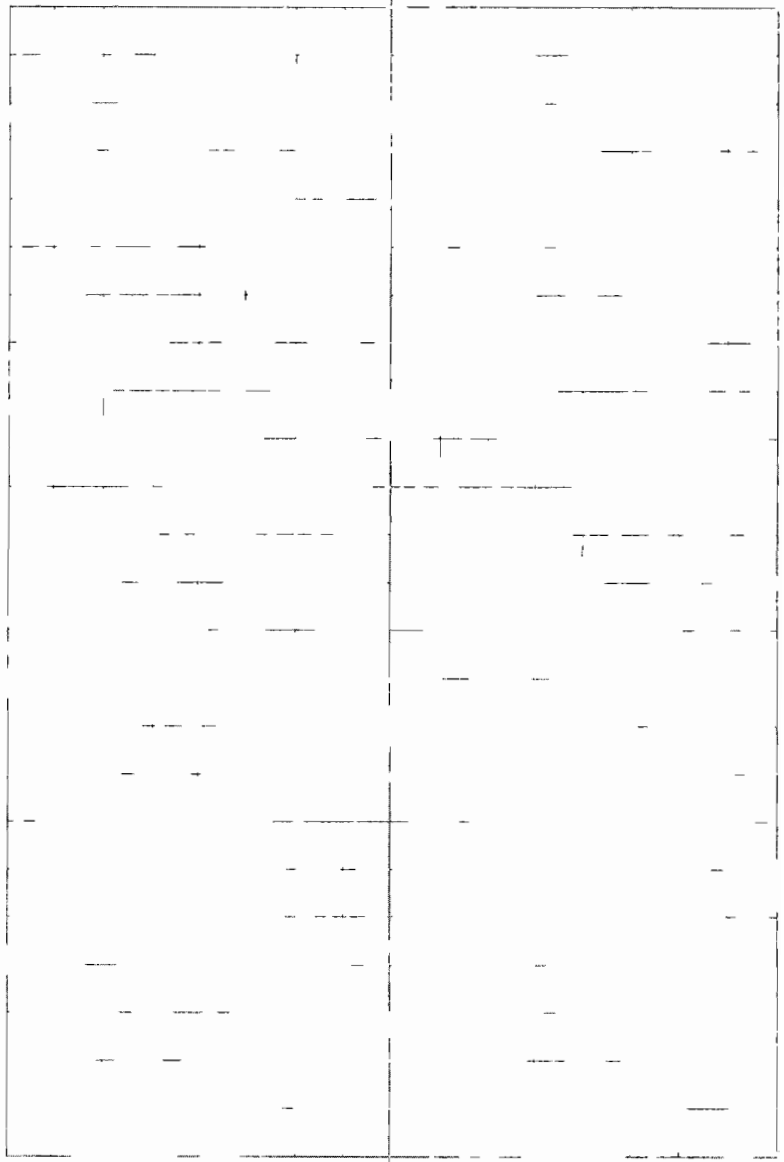
- clean up camp and check area
- need to go back to rock wall outcrop and dig at its base, check it more carefully where it disappears into the hillside
- not enough time with 9:00 AM
- 10 Aug pick up at lake
- pan 2 more out of deep end of trench 36" depth, 2 colours each
- pack
- move camp to E 3890 at confluence of main creek and last year's Target 1, set up camp on E side of main creek and N side of last yr's Target 1 on a gravel bar. (creek #3)
- This creek starts at marsh on top of E end of Watson Plateau at 4000 ft. - 4100 ft. elevation
- creek 3 about 4' wide x 4" deep where it flows into main creek
- fingerling grayling in creeks,
- rocky creek bed, fist size rocks, quartz, schist among others

- very flat area, to S. and E.
- an old burn area
- NTS map show 100ft change in elevation in 3/4 km ~~eastward~~ ^{southward}
- x 3 km wide E. - W.
- ~~walk south,~~ ^{walk south,} ~~chain~~ ^{orange} chain, flag every 25m on W. side of creek for 200m
- walk westwards ^{350m} on S. side of main creek, looking for other N. flowing creeks,
- many sand and gravel bars and rock bars in bends of main creek; raspberries.

36

Sun 7 Aug

- light pack, eery sunlight through smoke
- chain and flag E from S 200 upstream
- S 10' to S 500m old burn W. side, E. side bigger pines, few willows
- creek widens like it may have 10m wide



been mined. This is probably
creek mined ~~B~~ by Beanes in
1946 and 1947

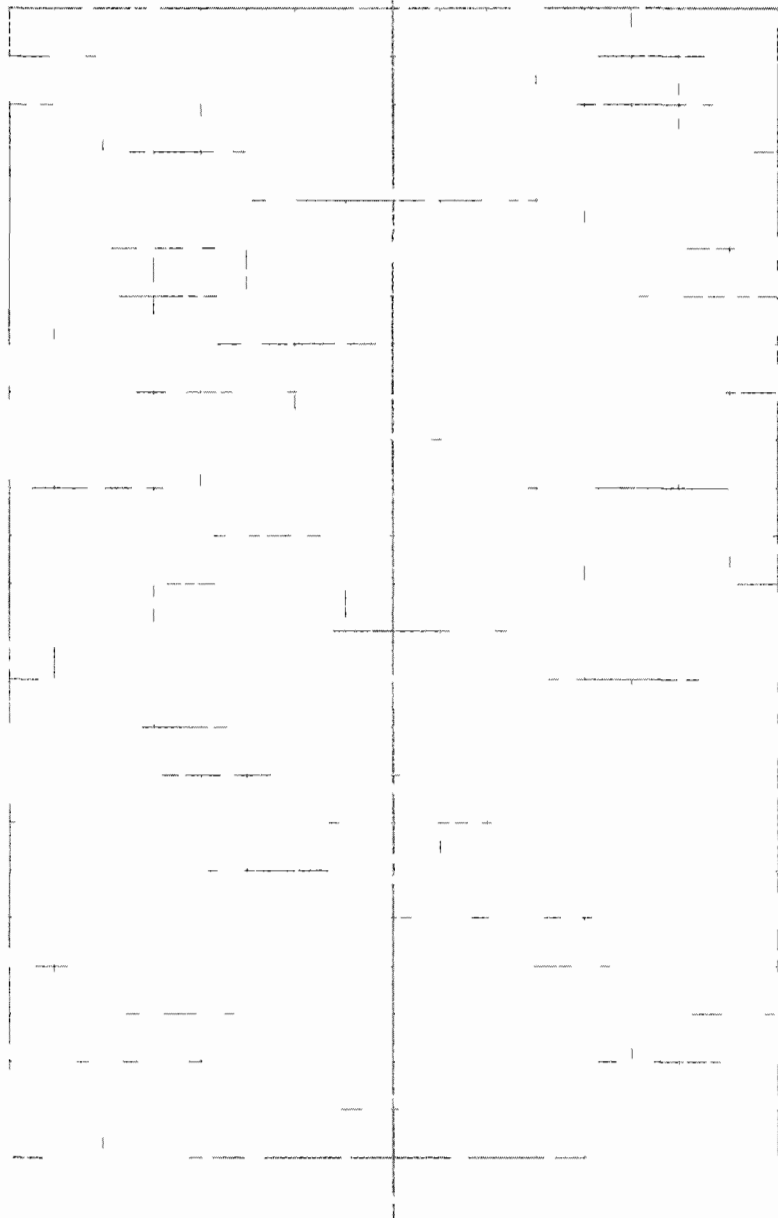
- pan at 250 m intervals - 1 or 2 colours
- 5800 huge quartz block with red lines
- 51000, crossed creek (E side), too many willows, continue flagging
- notice increase in incline
- 51100 cross back to W. side
- large pines and occasional black poplar - 24" diameter
- 51240^{w²⁰} remains of log cabin, 2 stoves made of sq. tins, pan, water bucket, pots, thick moss
- NO FILM for camera
- cross creek to E side, parallel creek, 10m apart, moss covered boulders
- follow creek to 51700, look for evidence of mining, found none, except parallel creek continues, both 5m-6m wide; may have been mined

- slope greatly increased, sides of valley towering about 200 ft above; getting darker with cloud, and smoke and big trees, (biggest trees so far) up to 24" dia couldn't reach around
- crossed to W. side of creeks and return looking for evidence of miners.
- 5575 E. ~~side~~ bank 2 m high, grey sandy - sample E3890 5575 creek 10 m wide, water running under rock
- 5700 to ~~camp~~⁵³⁰⁰, dry creek bed ~~accept~~
- many uprooted big trees, up to 24' dia.

(51)

Mon 8 Aug.

- sunny, hot, dry, thick smoke, can't see top $\frac{2}{3}$ of plateaus
- with samples, my pack weighs



- about 60 lbs, plus my jacket about 20 lbs
- Connie's pack about 50 lbs
- + shovel, pick mattock and shot gun.
- start return to quads
- drop packs and rest every 200m - 300m.
- get to quad at E1922 at 3:20 PM
- E1143, pit - bail out about 25 gal and 5" of muck, bottom N.E. 3/4 of pit coarse brown sand sloping ^{down} to S.W. under frozen muck; cracks in muck and sand have ice.
- took dried muck sample E1143 pit 36' deep.
- sand sample E1143
- unload at camp, record samples, notes; label all samples
- drive to lake; phone Michelle, "fires everywhere"
- phone Ernie, pick up as scheduled 9:00 AM. Wed, 10 Aug.

- go to mining recorder, check for more information on creek 3
- no record of any kind - mining, gold, only stories ^{remembered} about Besner mining there
- drive to White horse

Thur, 11 Aug.

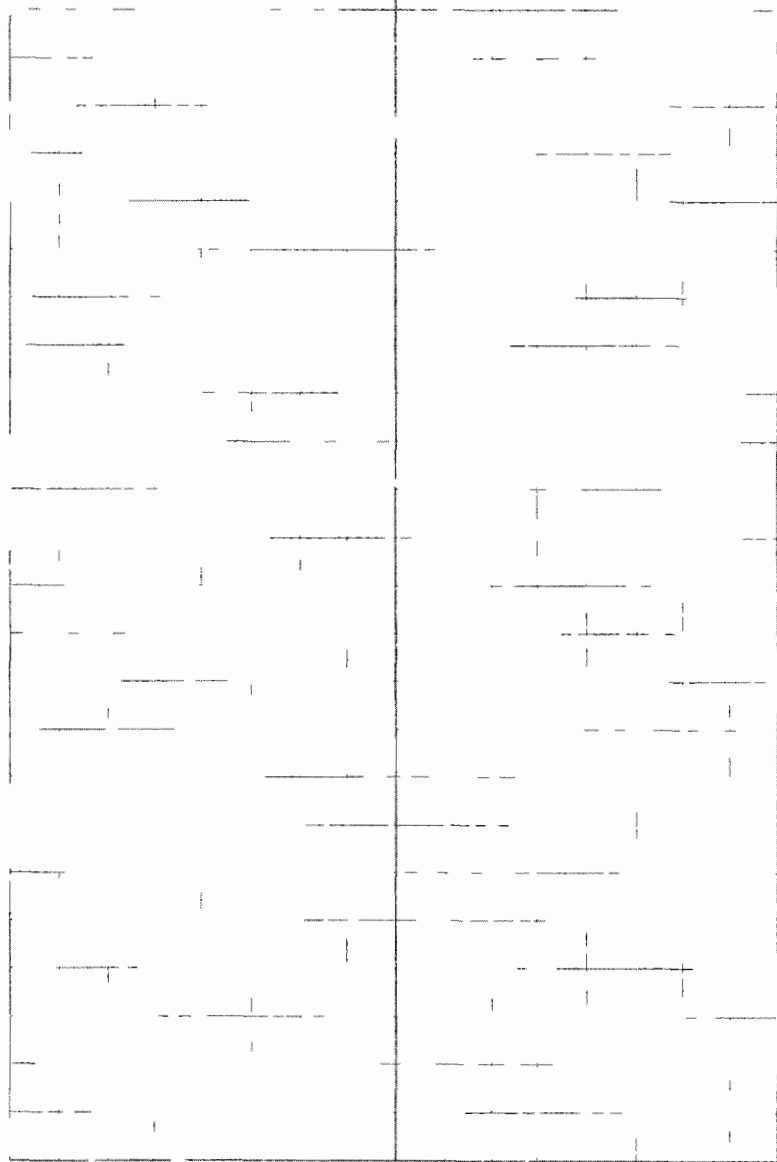
- Take samples to Northern Analytical Lab. - number 1-17
- Sample
- 1 - E1550 S120 bar in main creek
 - 2 - E1143 pit, muck sample
 - 3 - E1143_S pit, sand below muck
 - 4 - E1100 ~~400~~ sand bar main creek
 - 5 - 5-290 pit 290m N #1 Lawrence
 - 6 - 6-275 E30, pit 275m N #1 Connie
 - 7 - 7-650 W10 pit 650m N #2 Connie
 - 8 - E930 pit C-horizon
 - 9 - E930 pit A-horizon
 - 10 - E930 pit B-horizon
 - 11 - E3890 S575 - creek 3 bank sample
 - 12 - E4190 - creek 2 ~~trench~~ pit

- 13- E4190 creek 2 trench
- 14- 4-100-0 camp trench, creek #1
- 15- grab sample "iron slough" E850
- 16- grab sample 120 m N #1 Terry, in creek
- 17- 7-725 E50 pit 725 m N. #2 Connie

Sun 4 Sept

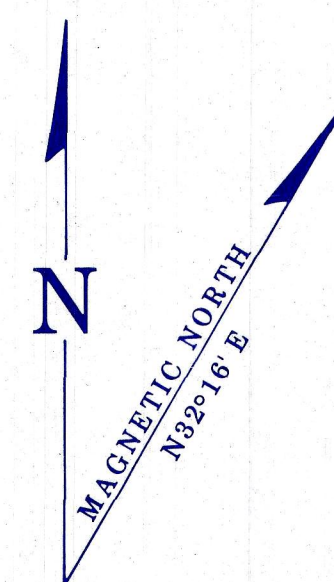
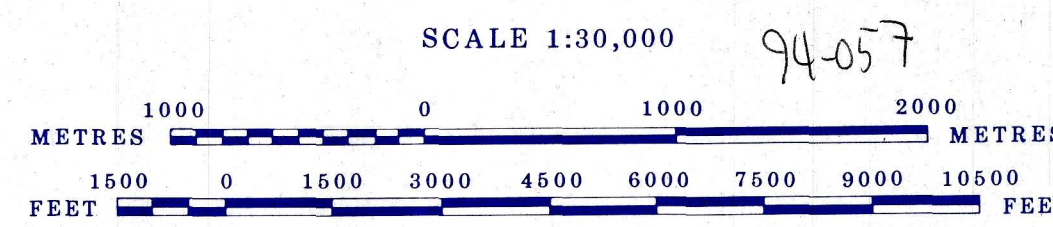
Went to
pay

- fly with Michelle to check on access from Mayo Lake to Targets 1 and 2. - from S arm of Mayo Lake
- see extent of forest fire, - came within 3 to 4 km of creek 2 and 3
- flew over creeks for idea of next year's work.



105M-11
QUARTZ & PLACER

LATITUDE 68°30' TO 68°45'
 LONGITUDE 135°00' TO 135°30'
 ISSUED UNDER THE AUTHORITY OF THE MINISTER
 OF
 INDIAN AFFAIRS AND NORTHERN DEVELOPMENT



NOTE:
 THIS MAP IS ISSUED AS A PRELIMINARY GUIDE FOR WHICH THE DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT WILL ACCEPT NO RESPONSIBILITY FOR ANY ERRORS, INACCURACIES OR OMISSIONS WHATSOEVER.
 TOPOGRAPHY COMPILED FROM 1:50,000 NATIONAL TOPOGRAPHIC SERIES.
 CONTOUR INTERVAL 500 FEET.
 SURVEY INFORMATION COMPILED FROM LEGAL SURVEYS, BY DRAFTING SERVICES.

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

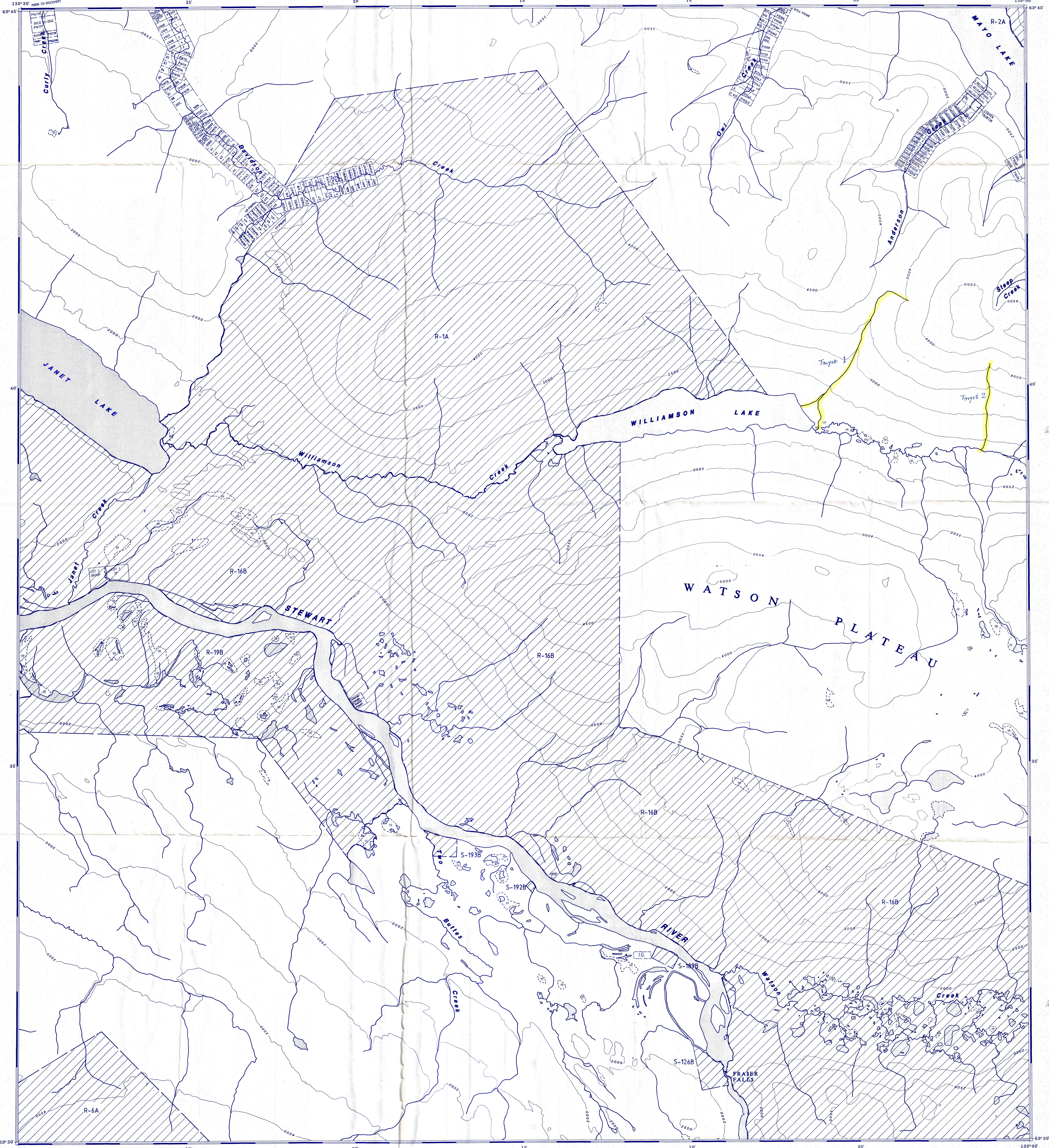
 Indian Grave Site

105M-13	105M-14	105M-15
105M-12	105M-11	105M-10
105M-9	105M-8	105M-7

7 NOV 81
 24 OCT 82
 21 SEPT 82
 14 NOV 81
 24 NOV 81
 21 AUG 81
 12 JULY 81
 5 OCT 80
 18 SEPT 80
 16 JULY 80
 5 JUNE 80

Canada

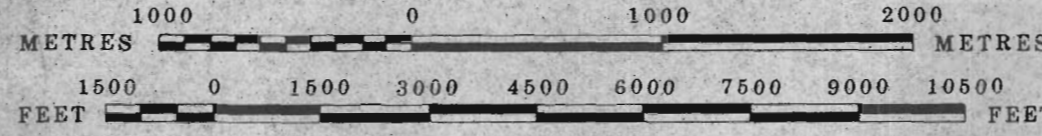
MAYO 25 APRIL 1990



105M-11
QUARTZ & PLACER

LATITUDE 63°30' TO 63°45'
 LONGITUDE 138°00' TO 138°30'
 ISSUED UNDER THE AUTHORITY OF THE MINISTER
 OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

SCALE 1:100,000



NOTE:
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Indian Grave Site

105M-13	105M-14	105M-15
105M-12	105M-11	105M-10
105M-8	105M-6	105M-7

12 AUG 74
 17 APR 76 (1C)
 27 NOV 76
 24 OCT 77
 27 SEPT 78
 15 AUG 79
 25 NOV 79
 16 NOV 81
 21 AUG 81
 30 JUL 81
 5 OCT 89
 28 SEPT 91
 16 JUL 92
 15 JUNE 93

MAYO 25 APRIL 1990

Canada

