

GORDON LAUTAMUS
1994
PROSPECTING PROGRAM

94-015

①

May 14/94

- Went up Lake Creek looking for good access into area. I found an old trail going in that would probably have been used by the old timers. There were also claim posts (Placer Claim #261-46) but was unable to see/read the date on the post. This was a discovery claim. I took two samples, but the results were negligible due to permafrost, as I wasn't able to obtain a good sample.

- There is much evidence of logging in the area, many years past, and also evidence of a small dozer up to observation point #5. From there the trail follows the channel for about 500 ft to ob. #6 where the channel drops off sharply to the left. The trail continues north for about another 500 ft, then drops down to the channel and continues north again. The trail here is more obscure and difficult to follow, but was obviously well used at one time.

- Observation points 1 and 2 follow directly along the channel and from #2 the trail climbs up from the channel to claim post #2 of the discovery claim. This appears to be the only claim that was staked as there is no post #1 for a second claim.

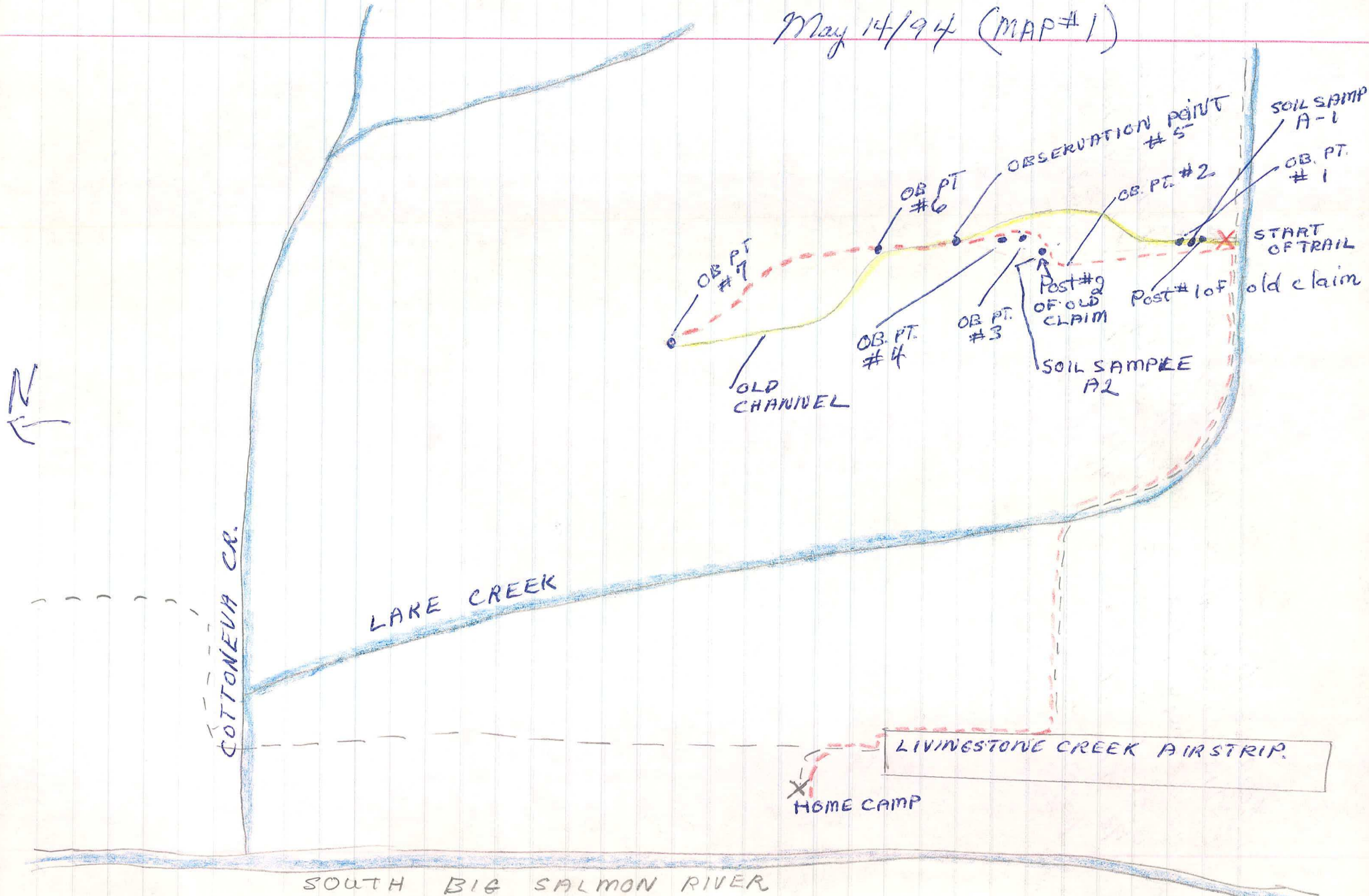
- From claim post #2 to ~~the~~ observation point #3 the trail is high above the channel. There is also another old trail veering off to the southwest from ob. #3. This I will explore at a later date.

- About 500 ft from ob. #3 is ob. #4. Here the trail drops down to ob. #5.

- I was able to obtain a good sample near the old claim post #2, but it is above the channel about 75 ft. The sample came from under a fallen tree, and was pure gravel. It is a reddish color, and contained a good amount of black sands.

MAY 14, 94

May 14/94 (MAP #1)



(NOT TO SCALE)

Comments:

The road from home base to X is in fairly good shape, however it requires a 4x4 truck in good condition to make it up and down due to the steepness of the grade. The distance from Home base to X is approx 2 miles.

②

May 15/94

- Today I stayed on the old channel instead of following the old trail. There is no flowing water in the channel, but there are many sink holes filled with water. I tried to take two samples (A-3, A-4) but again due to permafrost, the results were poor.

- I followed the channel to observation point #5 and was unable to find any other old claim posts, which leads me to believe that the discovery claim was the only one staked at any recent time.

* Note: My ratings on my samples taken are based on the amount of black sands extracted as well as any "colors" found. The ratings are:

Very Good

Good

Fair

Poor

Very Poor.

Thus, a rating of "good" would be a large comparable amount of black sands to the size of the sample, with perhaps a few colors.

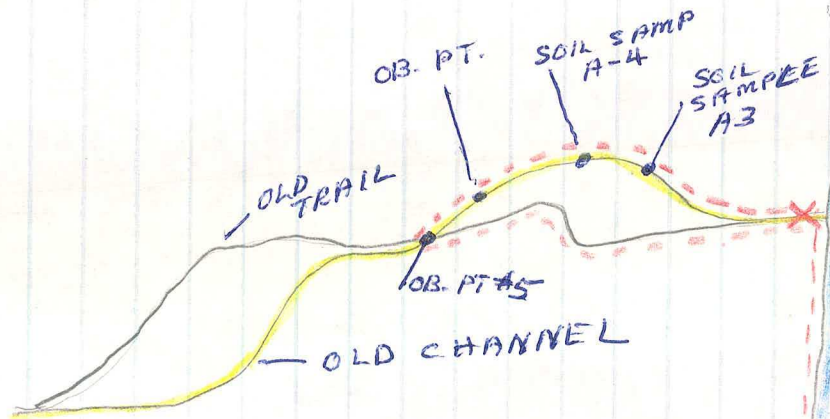
MAY 15/94 (MAP #2)



COTTONEVA CR.

LARE CREEK.

S. BIG SALMON



AIRSTRIP

HOME CAMP

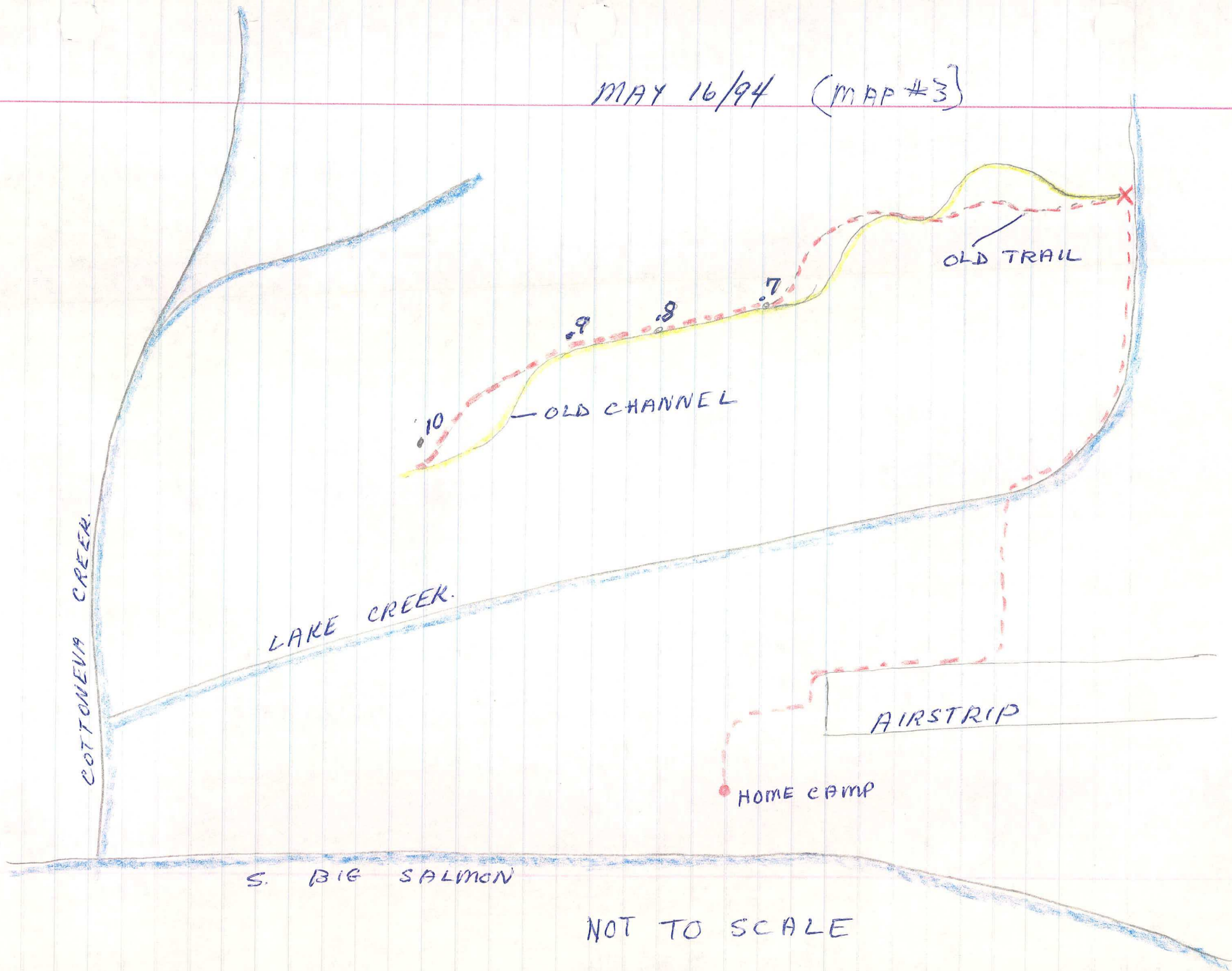
(NOT TO SCALE)

May. 16/94

- Today I continued on the trail from st. # 7. There is much swampy ground and a lot of still water between # 8 and # 9. There is no evidence of logging anymore & although I am able to see where the trail went, it is very difficult to follow due to deadfall and sinkholes, etc.

- From # 9 to # 10, the trail drops down sharply and is easier to follow. From ~~the~~ # 10 the trail continues downward, but not as steep, and once again the ground is quite swampy. I think there is a creek to the west of me, but for now I wish to follow the trail right through to see where it comes out. It obviously goes clear through to Cottonera Creek.

MAY 16/94 (MAP #3)



S. BIG SALMON

NOT TO SCALE

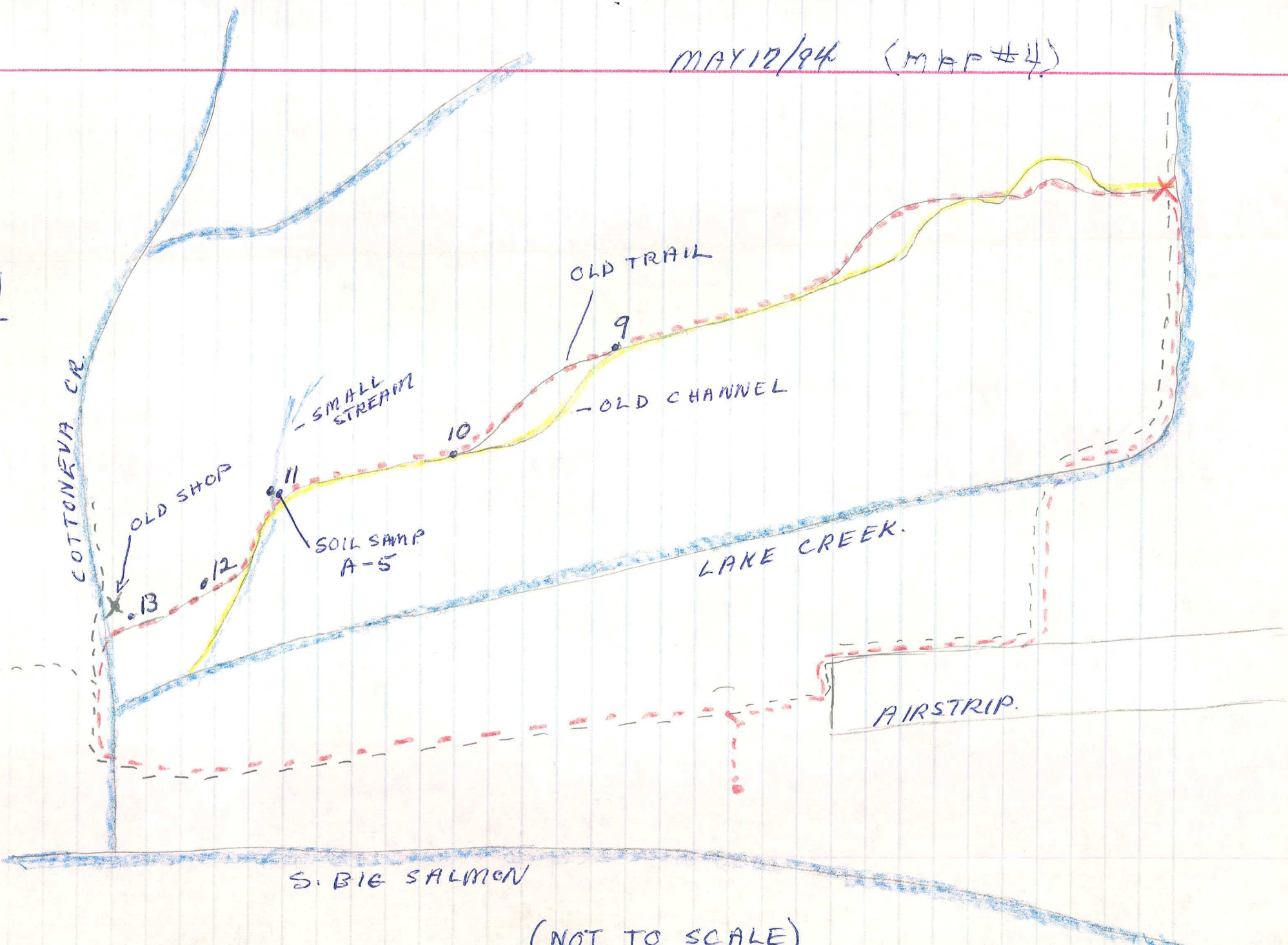
May 17/94.

From ob. #10 to ob. #11 the trail travels in a north and slightly west direction and then turns sharply down and west at #11. There is a small stream coming down the mountain at #11 and it follows the trail for a ways and then runs into the creek to the west of me. I will explore this creek later. It is probably part of the same channel I am following, only the water has found a new course to run. #12 is where the trail goes north again and the stream veers off to the creek. The trail comes out at #13 at Cottonera Creek, near an abandoned shack from long ago, which is known as the old "blacksmith's shop."

I was able to get a good soil sample at #11. There was some smaller gravel, mostly sand and a good amount of black sands. Due to the nature of the area, I am unable to pack my samples out, and must pan them out and assess them on the trail. I do, however, bring out the black sands for further evaluation.

- When I first decided on this area, it was because I could see the old channel from below. I had no idea where it came out in the bottom. After following it, I've found that access to it is not as difficult as I first thought. There is already a trail into it at the bottom (walking only) and it comes out right on the road that follows upper Lake Creek. This would be easy ground to mine, rather than difficult, as I first suspected.

MAY 17/94 (MAP #4)



COTTONEVA CR

OLD SHOP

SMALL STREAM

OLD TRAIL

OLD CHANNEL

LAKE CREEK

SOIL SAMP
A-5

AIRSTRIP

S. BIG SALMON

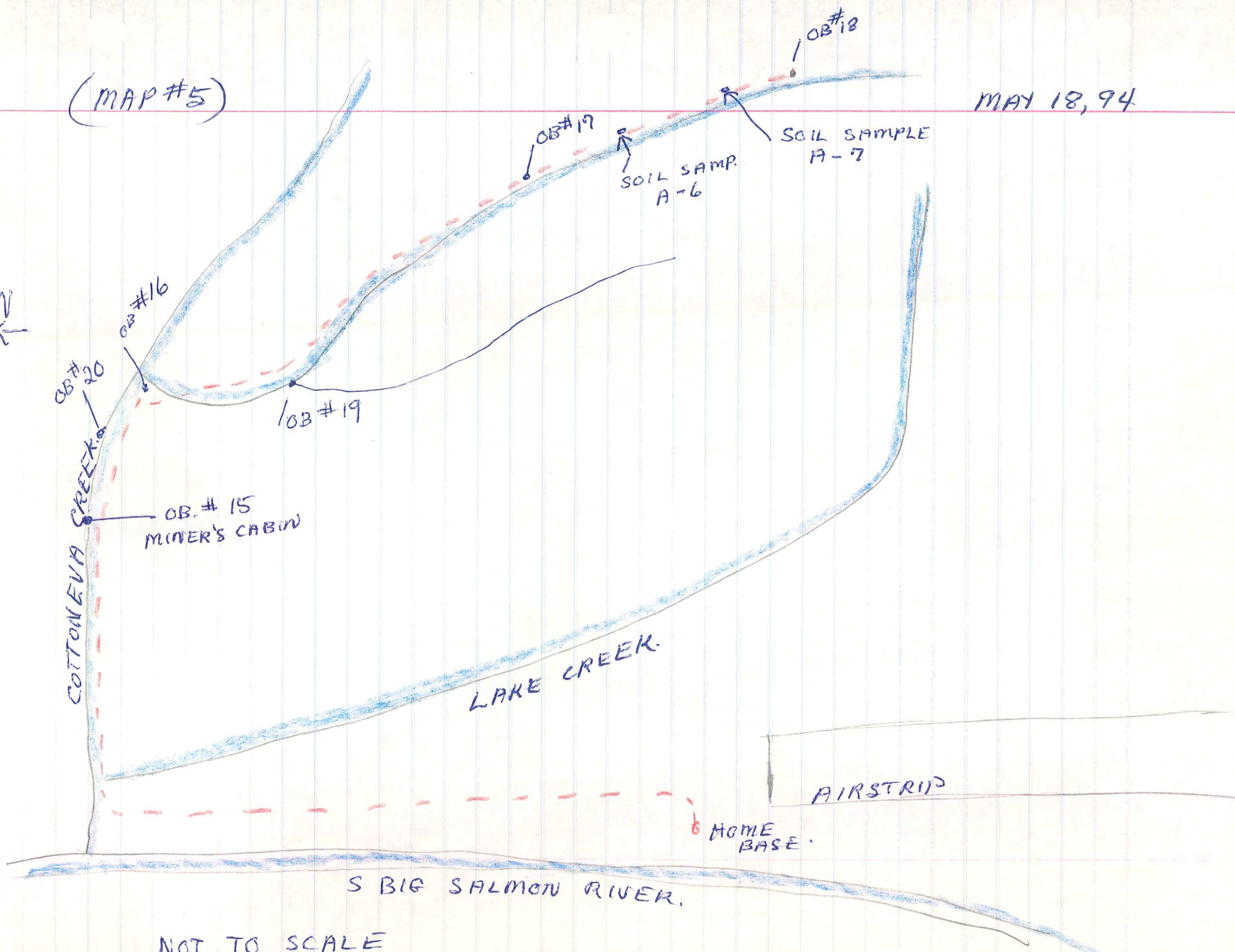
(NOT TO SCALE)

May 17/94

- Today I went up Cottonera Creek to observation point #18. This was all staked as a two mile lease at one time, but now is only staked up to ob #17. There is a cat trail into here, but at #18, the water and depth of snow became a real problem. I was looking for a cut to go to Lake Creek, but was unable to continue. There is a channel going up from OB #19. It is quite shallow, and goes almost to the top of the mountain.
- The road is passable from up to ob #20, and later in the year, after drying, you can make up to #19. (with 4x4)
- The two samples I took yielded a fair amount of black sands. (A-6), (A-7)

(MAP #5)

MAY 18, 94



COTTONEVA CREEK

OB. # 15
MINER'S CABIN

LAKE CREEK

S BIG SALMON RIVER

AIRSTRIIP

HOME
BASE

NOT TO SCALE

OB # 20

OB # 16

OB # 19

OB # 17

OB # 12

SOIL SAMP
A-6

SOIL SAMPLE
A-7

May 19/94

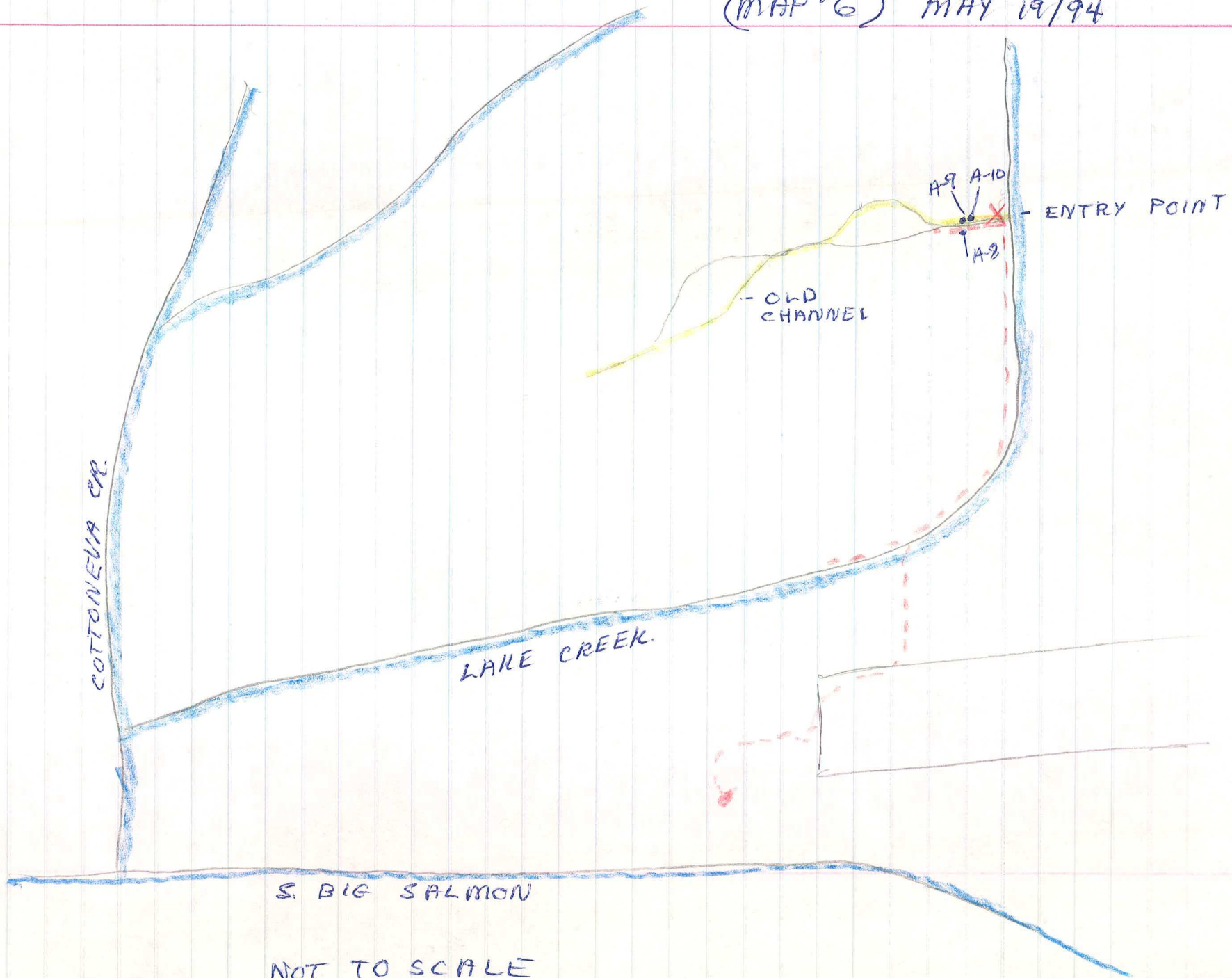
- Today I went to where the channel comes out at Lake Creek and took 3 samples.

- Samples A-8 and A9 consist of a sandy clay with small gravel mixed in. There was a good amount of black sands in the samples. Also, there was a lot of small quartz, 1/8" size in the samples. These samples were taken at 3 1/2 ft. for sample A-8 and 2 ft for sample A-9.

- A-10 was taken from a gravel pile that had been dug with a backhoe. As the hole is full of water, I do not know what depth the sample came from. The sample had less clay than A-8 and A9, but only a fair amount of black sands. This could be from the black sand washing out over time, as the hole was dug many years ago.

- Just off the trail from A-8 there is the remains of an old building. It looks like it was a tent frame. The 4 corner posts are still up and a couple of braces. It measures about 6' x 8' and is very, very, old.

(MAP #6) MAY 19/94



(7)

May 20/94

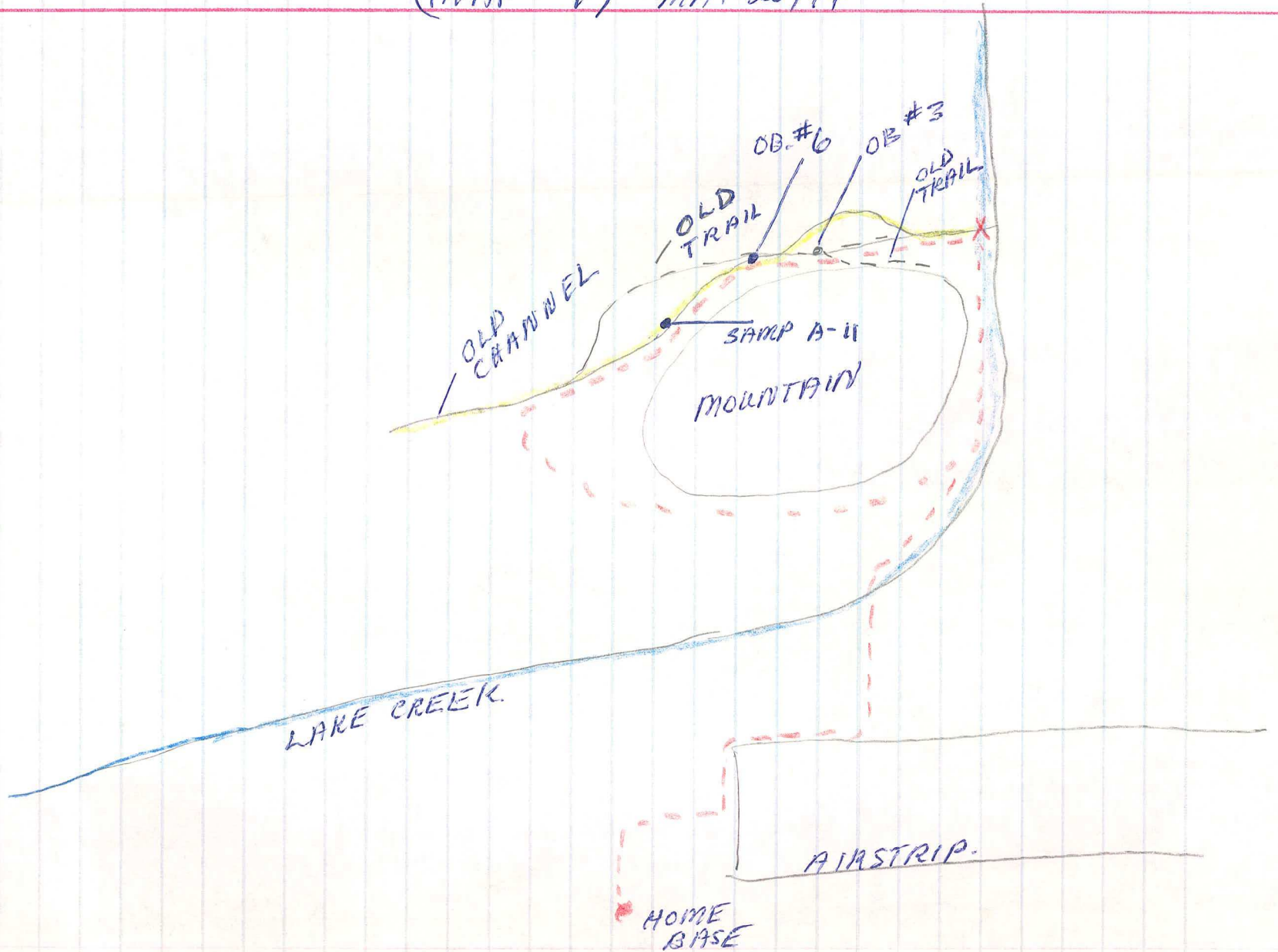
- Today I walked into the old trail that cuts off from observation point #3, but it only goes a short distance and ends.

- Continued on ~~and~~ to ob. #6 and followed the old channel down instead of the old trail.

From ob. #6 to ob. #7, the channel drops sharply. I took sample A-11. By the look of the soil where I took my sample, it looks as though bedrock may not be too far down. Also the channel is very narrow at this point. The sample yielded poor black sands, but this could be due to the steepness of the grade.

- I then walked around the mountain, instead of going back up. I found a very old cat trail that took me to the edge of Lake Creek.

(MAP #7) MAY 20/94



NOT TO SCALE

(8)

May 21/94

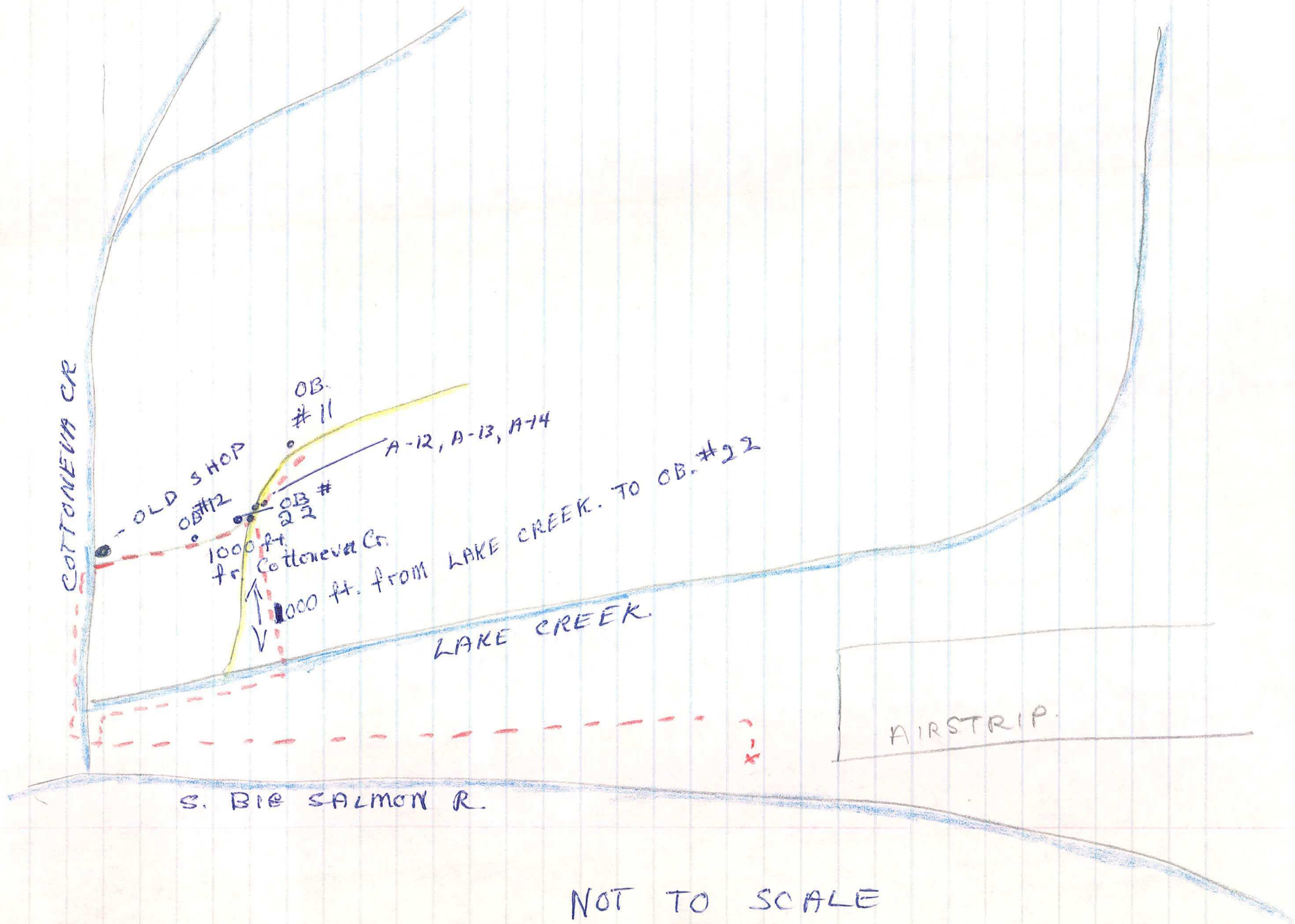
- Today I went into the area from the old shop on Cottonera creek. I stepped off 1000 feet so I would be sure I am working on unstaked ground. Where I will put Post #1 for a lease is just south of #12, and west of #11. (see MAP# 4, MAY 17)

- I also took samples A-12, A-13, A-14.

- The samples are similar; sandy with fine gravel mixed in. There were also small pieces of rotten schist and a lot of small ($\frac{1}{8}$ ") pieces of white quartz. There was a fair amount of black sands.

- I also found a claim post on Lake Creek and measured off 1000 ft East to find the east edge of the Lake Creek Claims.

MAP # 8 May 21/84



(9)

May 22/94

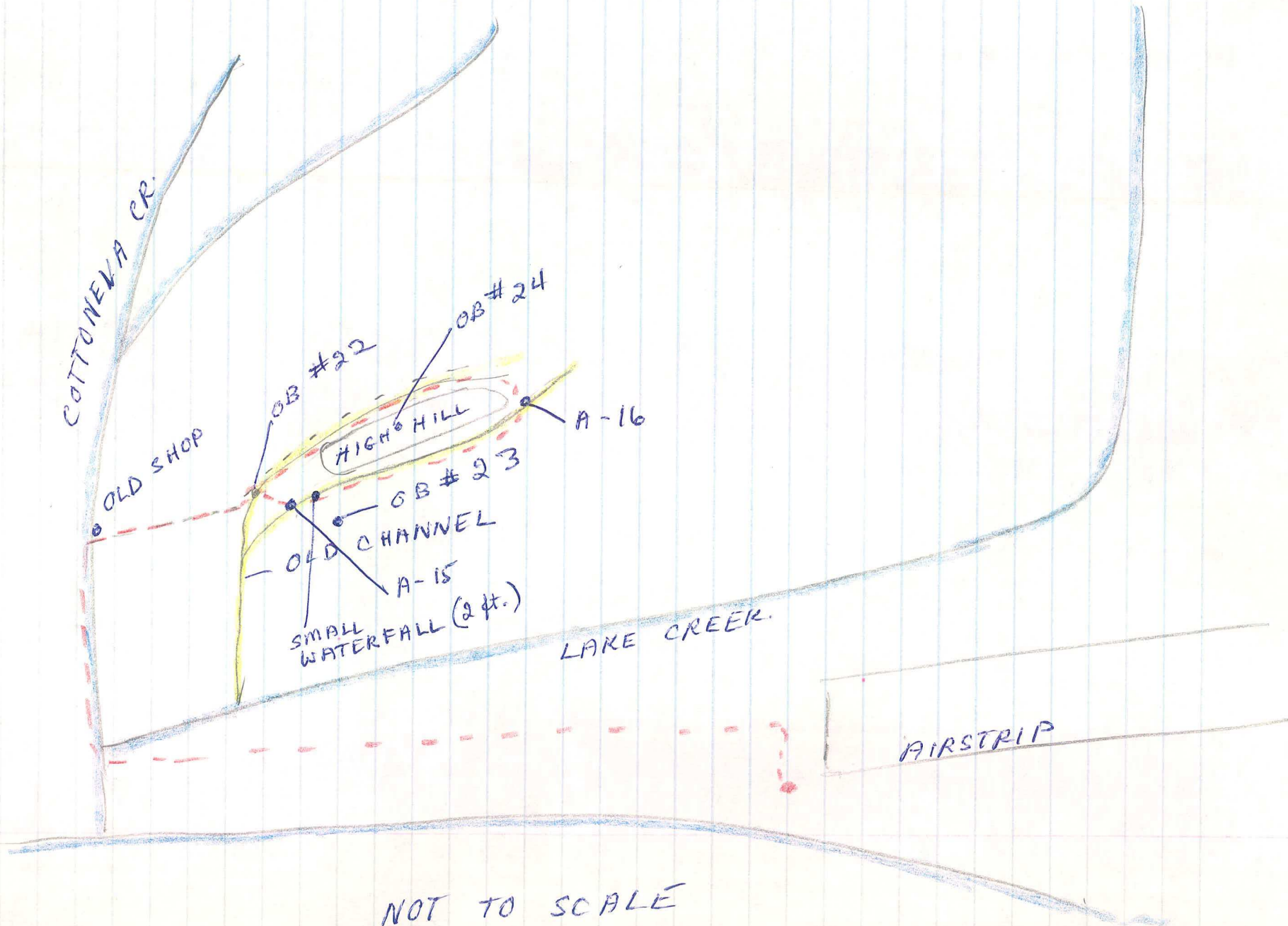
- Today I went in from the old shop again, on Cottonera creek. I had thought there was a creek to the west of OB#22, but it was another small stream coming around a hill. It is part of the same channel I am working on. To the west of that, OB#23, the ground rises to the edge of Lake Creek where it drops straight down to the valley floor.

- I took two samples, A-15, & A-16. They were very similar to A-12 - A-14.

- There is a two foot water-fall where I took sample A-15. It could be a sign that bedrock is just below the sand. I will take the tools in that I need to dig down a good distance on another trip.

MAP #9

May 22/94



NOT TO SCALE

(10)

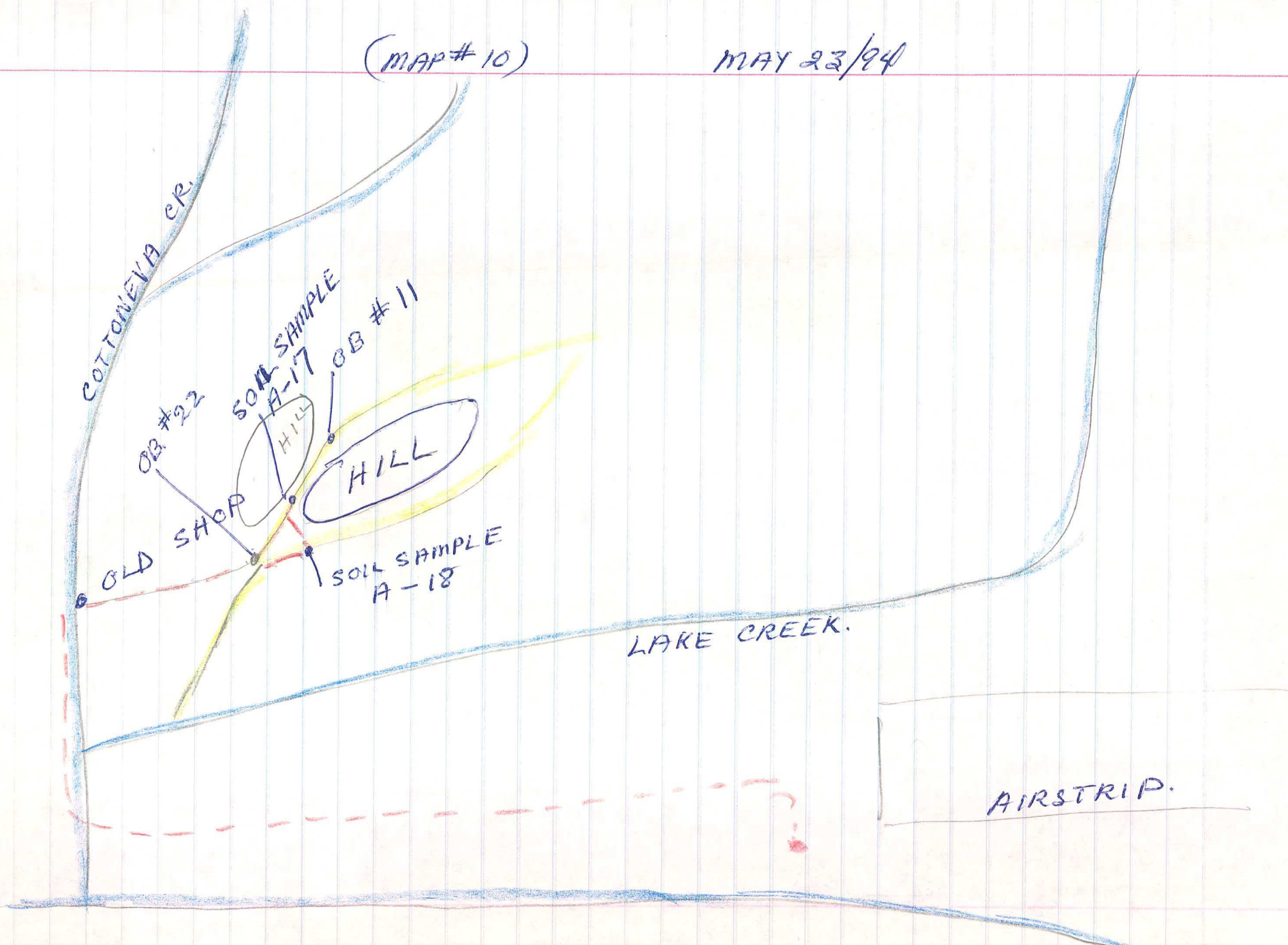
May 23/94

- I went to observation point #22 again today and took another sample, A-17. I dug down 2 feet with a shovel, and the sample was similar to others in the area. I also took a 3 ft steel rod and was able to push it all the way in the bottom of the hole by hand. I didn't hit anything solid. This is interesting, because ~~only~~ only 10 feet away there is a hillside with rock right under the moss.

- I also brought in a long handled shovel and was able to dig in the bottom of the small waterfall. It is a bit deeper than I thought at first. It is about 4 ft. high. I got a fairly deep sample from the bottom. I took this sample home (A-18) and found several flakes of gold in it. Also a good amount of black sands. There is also ~~rock~~ rock at the bottom of the falls, but I have not yet found out if this is bedrock, or just a layer of boulders. It will take a lot of handwork to uncover the rock of moss and black dirt, etc., and I will work on this as my program continues.

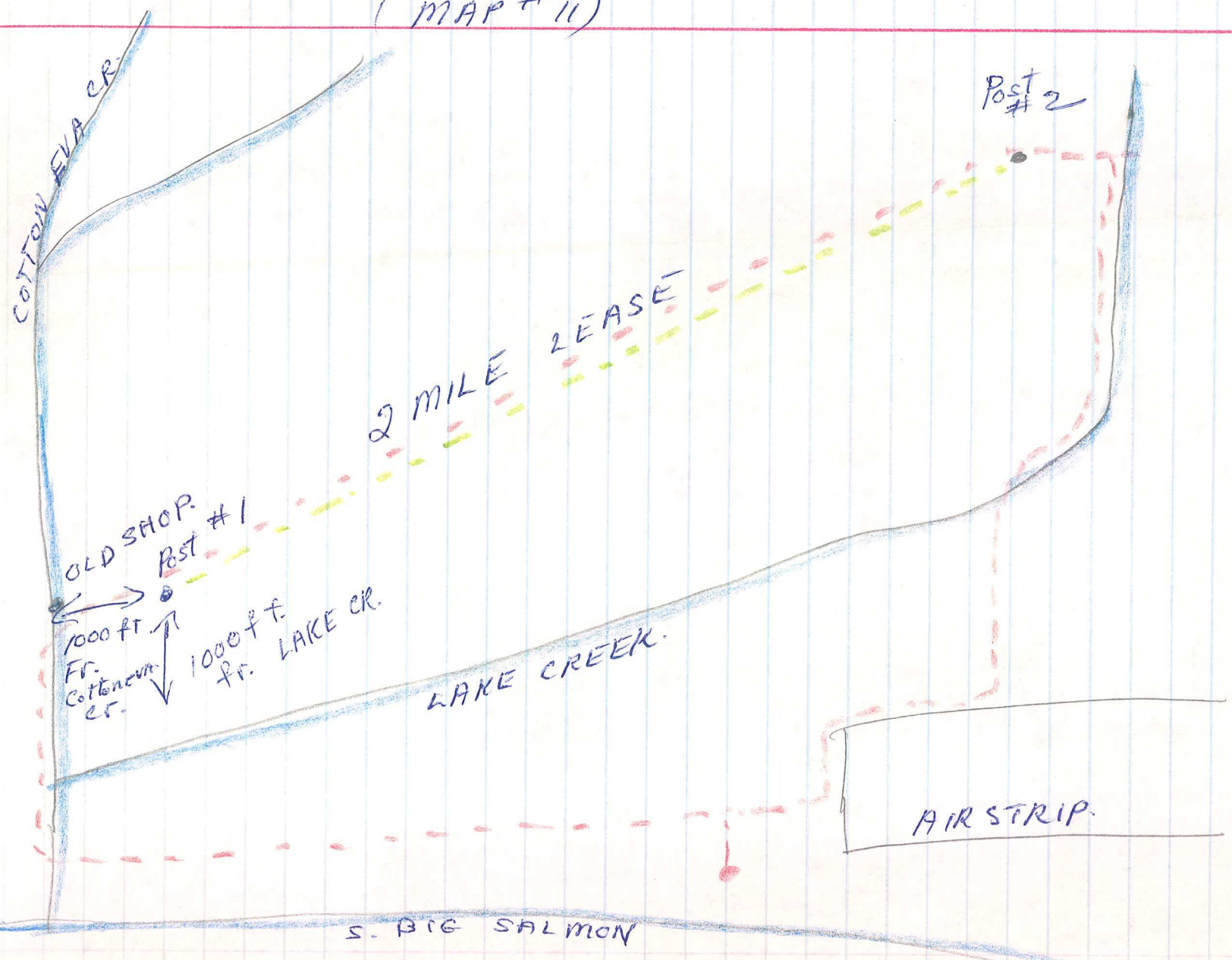
(MAP # 10)

MAY 23/94



NOT TO SCALE

(MAP # 11)



May. 24/94
 - Today I staked a 2 mile lease in the project area.

(11)

(17)

May 25/94

- Today I dug all the moss & dirt away from the waterfall. I dug down as far as I could and took 5 samples as I went. (A-19 to A-23). In all these samples, I was unable to find any flakes of gold, as I did in sample A-18. This leads me to believe that the flakes were washed down from higher up and are not part of the gravels down here.

- The waterfall is not on bedrock, but on a layer of boulders with gravel mixed in. This still could be a sign that bedrock is not far down.

- The gravel is about $\frac{1}{2}$ larger rocks ($\frac{1}{4}$ " and more), $\frac{1}{2}$ smaller rocks & fines. There was a poor amount of black sands.

Map # 12 May 25/94

COTTONVEA CR.

OLD SHOP

Plot # 1

WATERFALL

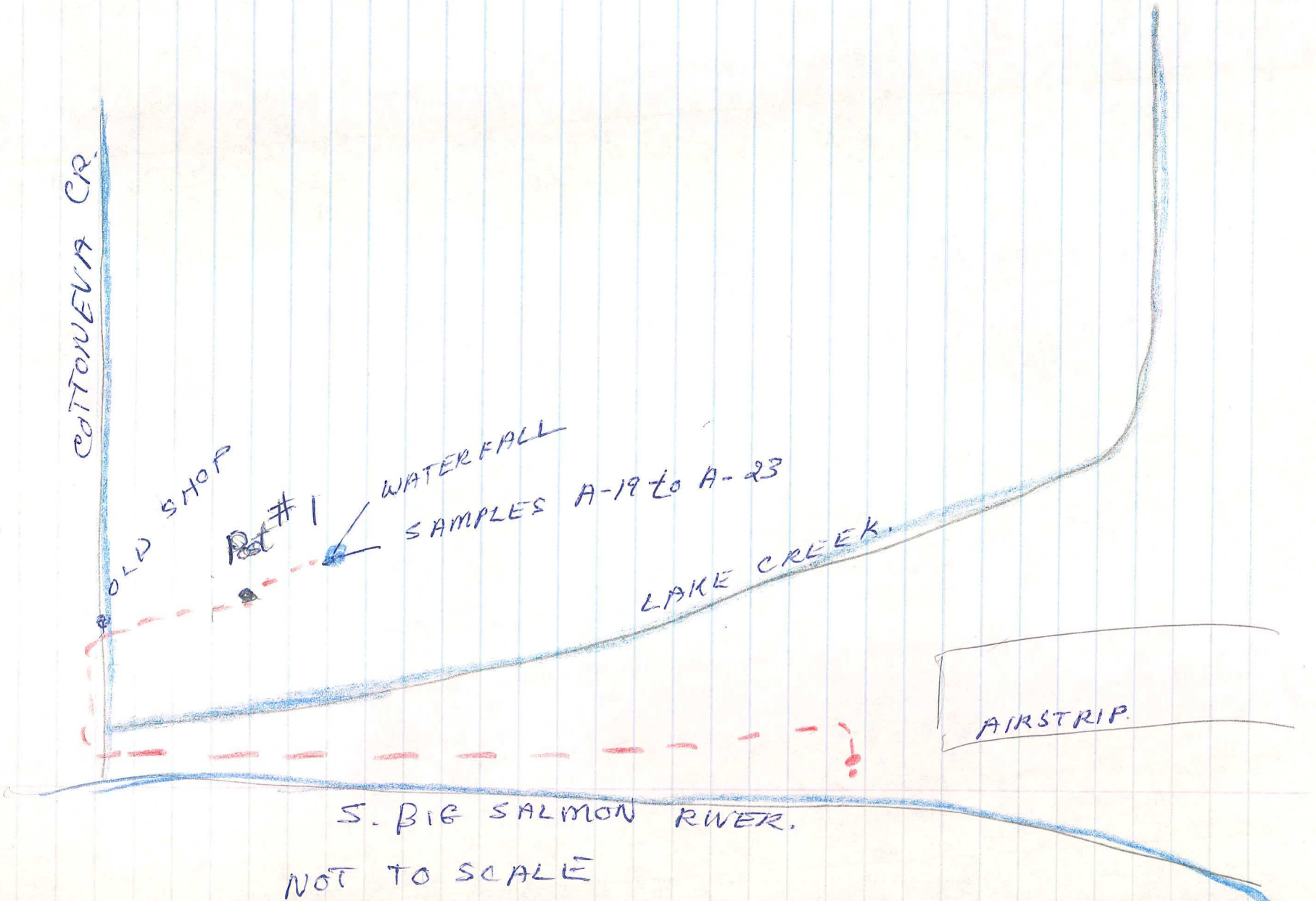
SAMPLES A-19 to A-23

LAKE CREEK

AIRSTRIP

S. BIG SALMON RIVER.

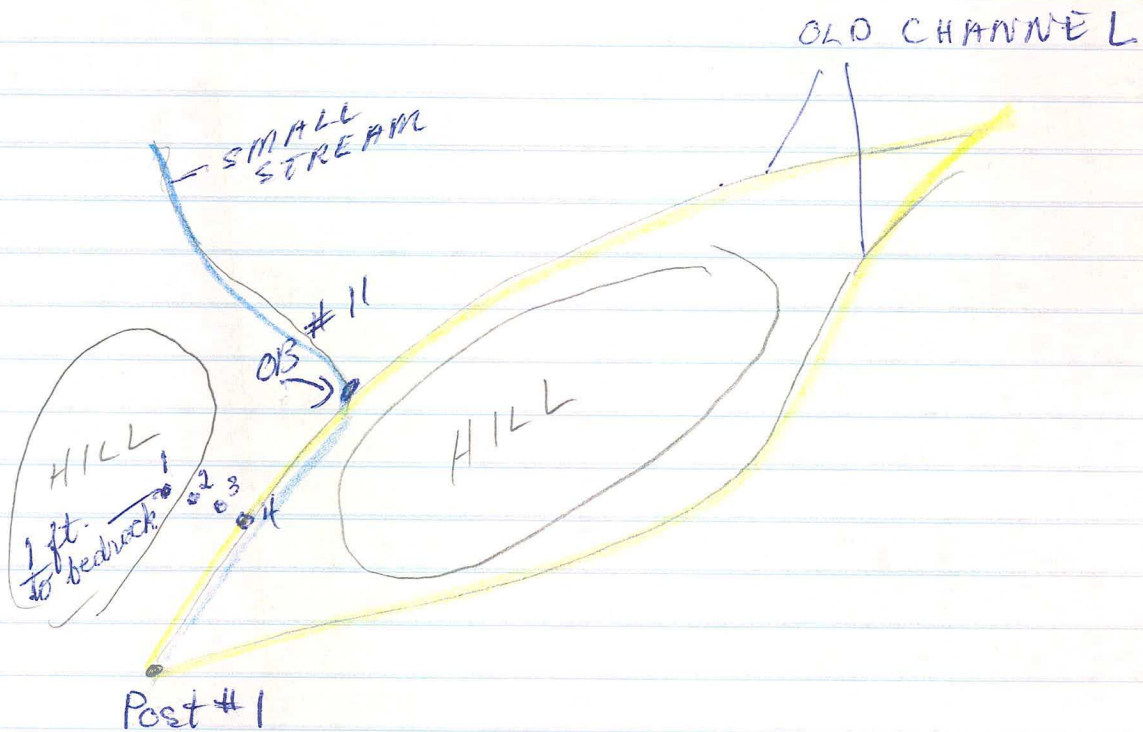
NOT TO SCALE



(13)

May 26/94.

- I started a series of test pits to determine where the bedrock falls off at the old channel, but was unable to continue due to permafrost. The channel is quite narrow at this point. (about 20 ft.)

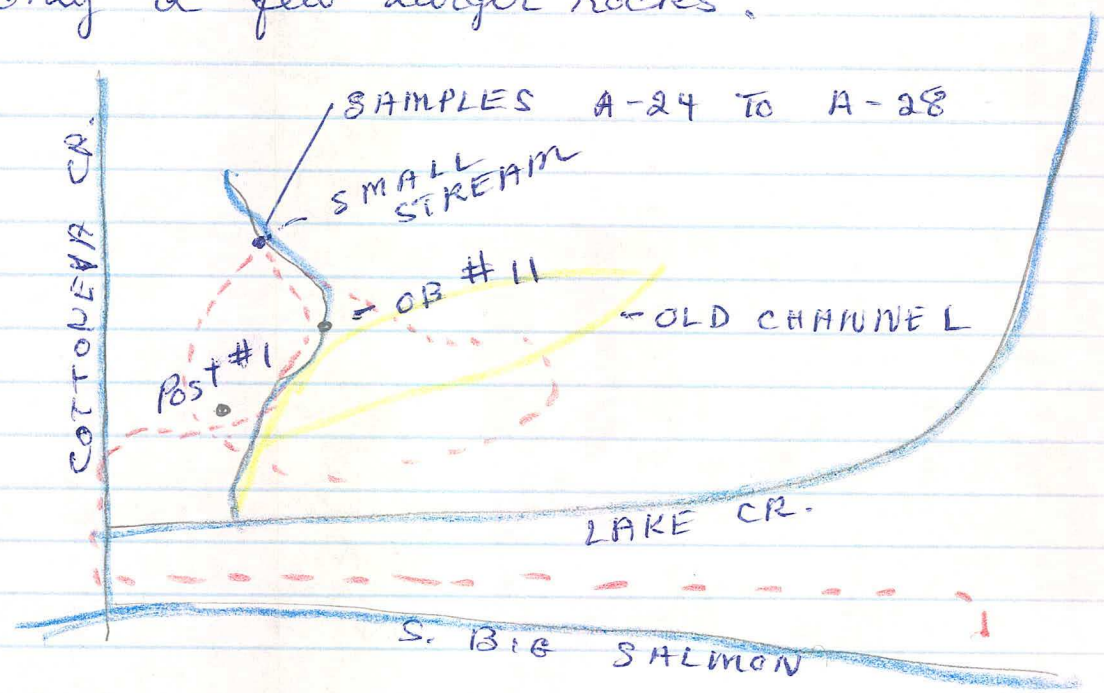


I could not dig #s two + three. #4 was okay to dig, but I was unable to hit anything solid.

- The small stream coming down to OB #11 is almost dried up now.

May 27/94

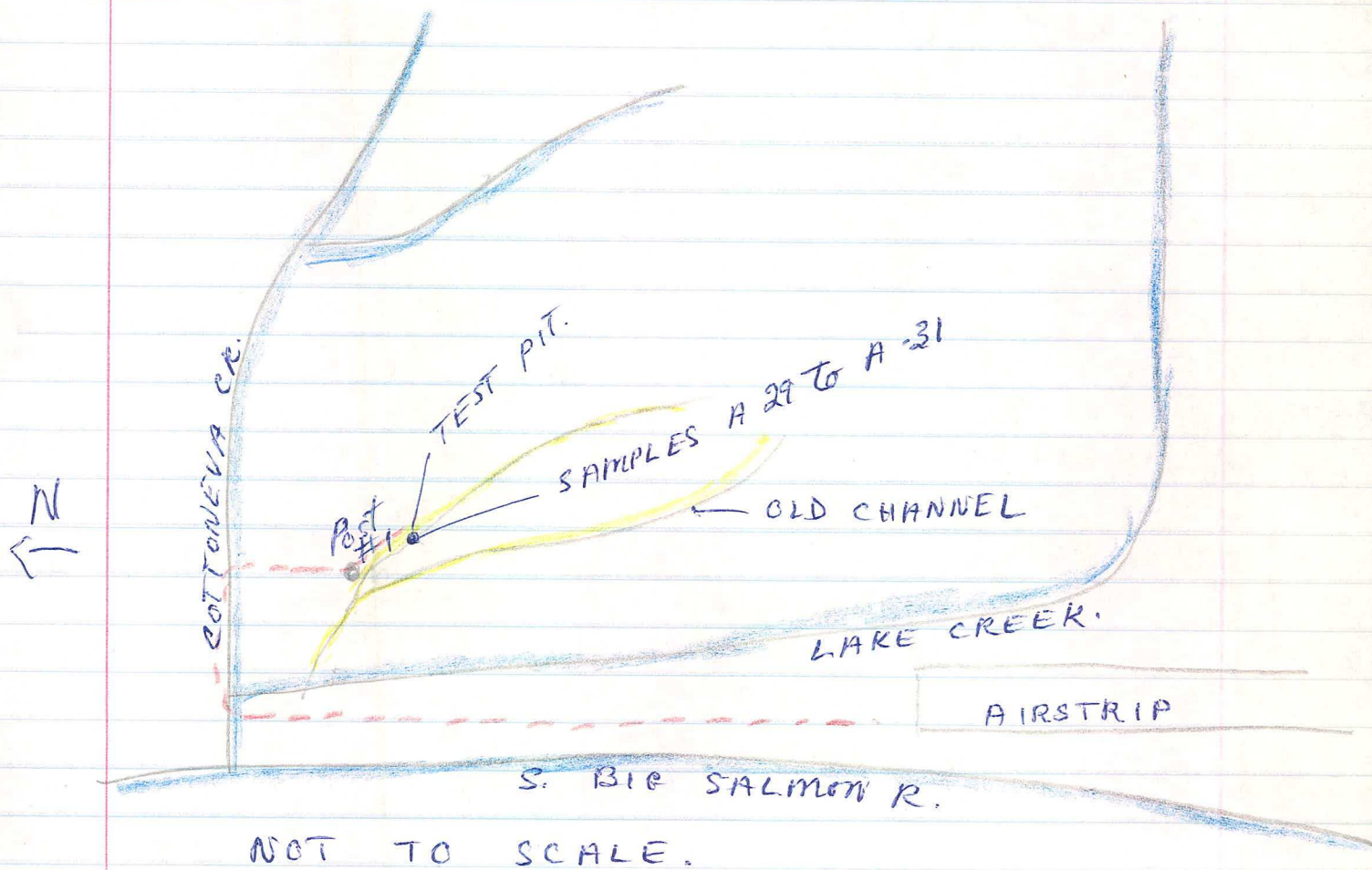
- Today I explored the area around Post #1 a little further. There is a series of small sharp hills, and the channel wanders around them.
- I went up the little stream from observation point #11. I took a surface sample and then dug a 3 ft. hole, testing as I went. I took 5 samples altogether, (A-24 to A-28) but only found colours in the surface sample.
- These samples are very fine gravel with only a few larger rocks.



Note: I consider larger rocks to be over 1/4" in size, and smaller rocks less than 1/4".

May 28/94.

- Today I dug a test pit 4 ft. down. I also had to dig a trench about 20 ft. long and 1 ft deep to drain some of the water out of the test pit.
- I took 3 samples (A-29 to A-31)
- These samples were very fine sand and gravel, contained very little black sand.



May 29/94

Today I went farther up the channel. After the two channels go around a hill, they meet in a gravel flats. This area is about 200 ft. wide with ~~a hill~~ on high ground on the west side and a face on the east side. This face is about 200 feet high. The mess is less than a foot deep in the flats and gravel is showing through in many places.

I took samples A-32 to A-35 in this area with poor results except for sample A-32 which I took from 2 feet down. This sample had a large amount of black sands in it. I brought this sample home to analyze, and next trip, I will dig a deeper sample in the same spot. I immediately run into water when I dig in this area, so I am not sure how far down I can go.

May 29 (94)

COTTON EVA CR

200' HIGH FACE

A-32 (2 FT. DOWN)
A-33 (A-33 SURFACE SAMPLE)

GRAVEL FLATS

STREAM

A-34
A-35

Pst #1

HILL

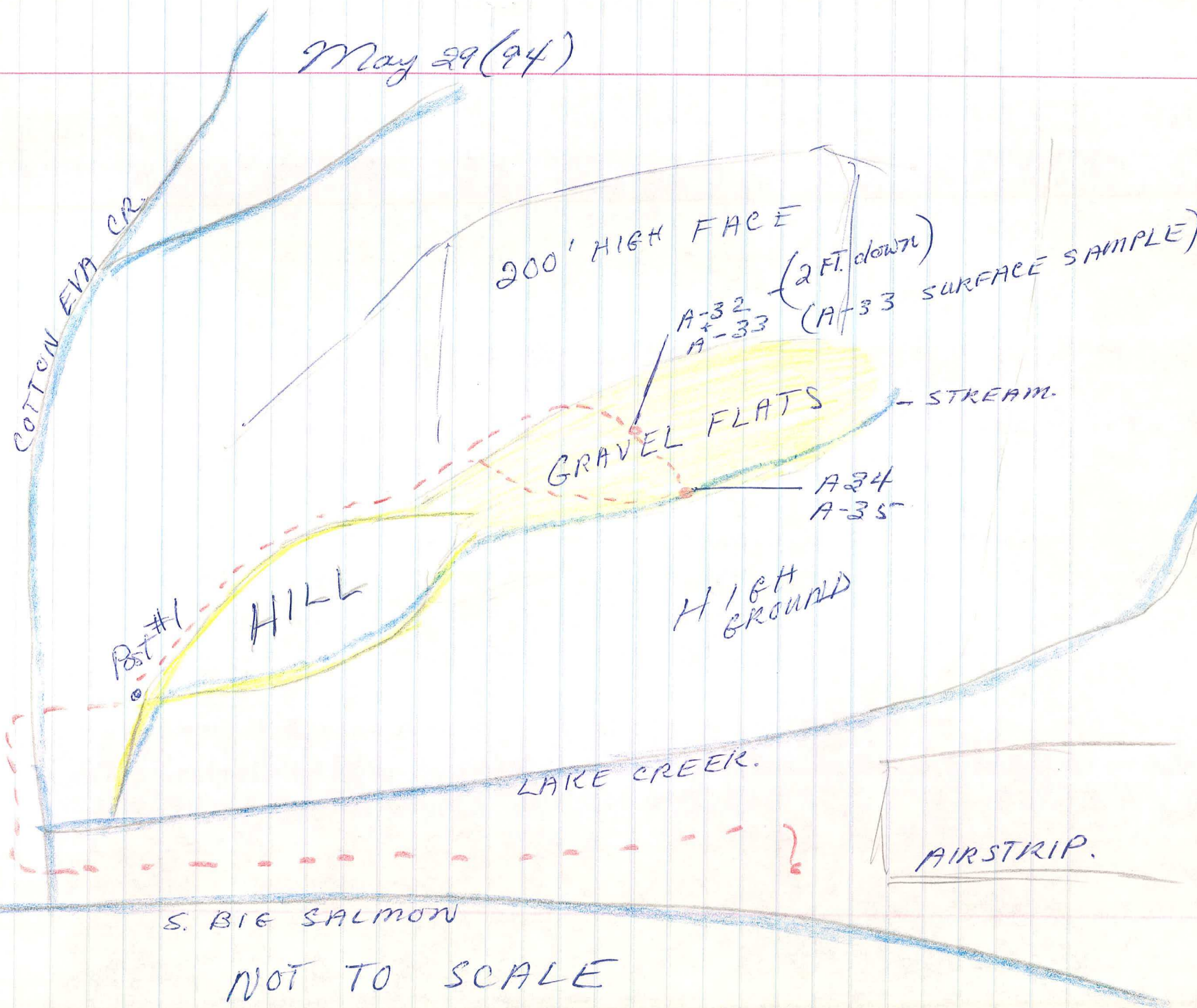
HIGH GROUND

LAKE CREEK

AIRSTRIP

S. BIG SALMON

NOT TO SCALE



May 30/94

- Today I went back to the same site as A-32 sample was taken.
- I dug down 3 ft and had to quit because of water.

The gravel here is very coarse and the larger rocks are stained very heavily. There is also a large variety of rocks, such as quartz, sandstone, and also some pieces of granite which are rounded more than the other rocks. This, along with the heavy staining could indicate that I am on a fault.

There was a good amount of black sands but very few colours.

I took samples A-36 to A-40 as I dug.



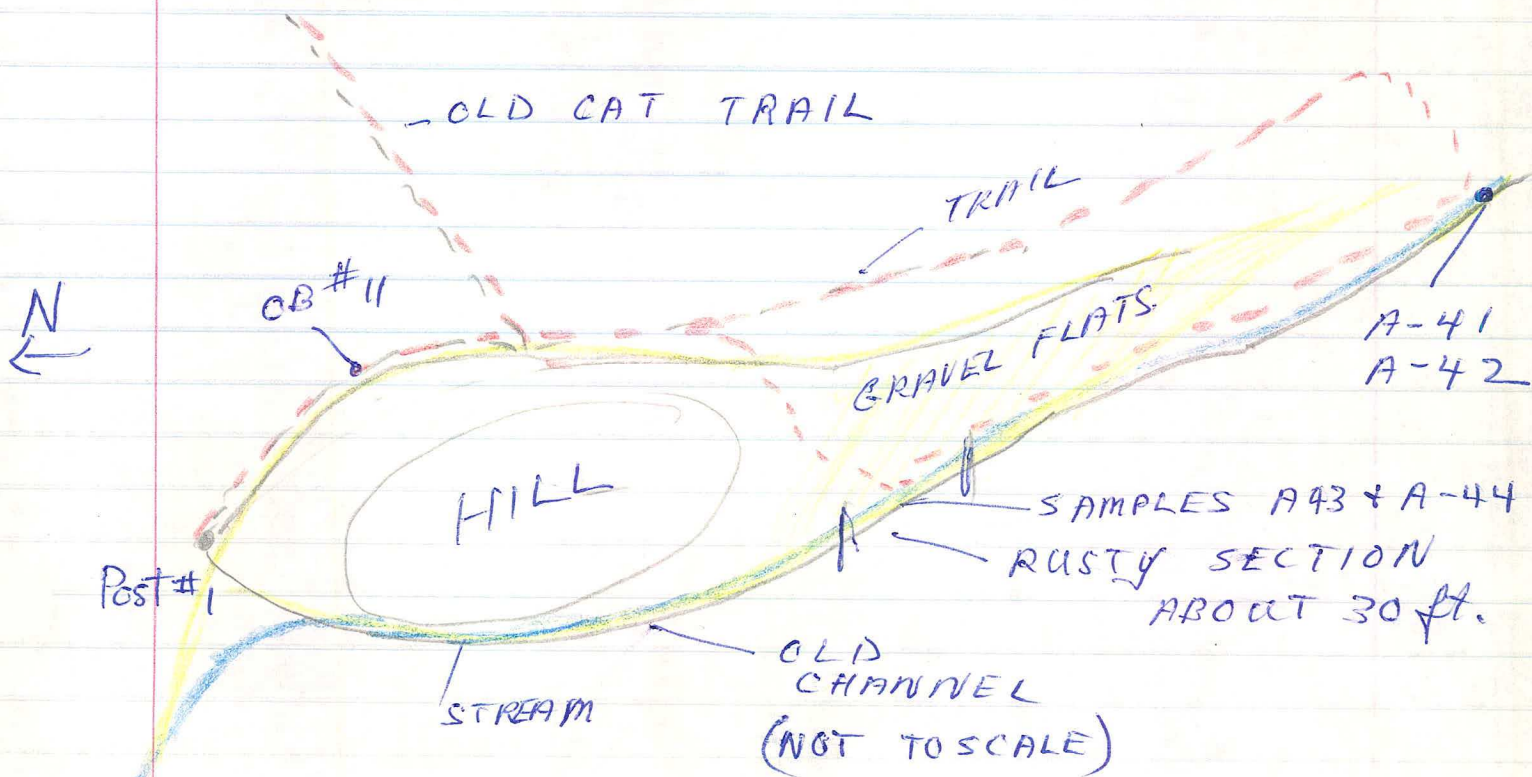
NOT TO SCALE

May 31/94

The stream that runs down from OB#11 has completely dried up now. Where I dug down 4 ft and took samples A-29 to A-31 from, was now dried up, so I cleared out the hole and took another sample, A-45. I had the same results as with A-29-A-31.

I continued on up the trail past OB.#11 and found an old cat trail going up the mountain. I followed this, but it ended at the top.

I then cut across the gravel flats to the stream and found a section of it (about 30 ft.) is very rusty. It is clear, then totally orange for about 30 ft. and then clear again. I took sample A-44 from here and recovered lots of black sands. I also took sample A-43 for an assay to perhaps find out what is causing the oxidization in ~~the~~ such an abrupt manner.



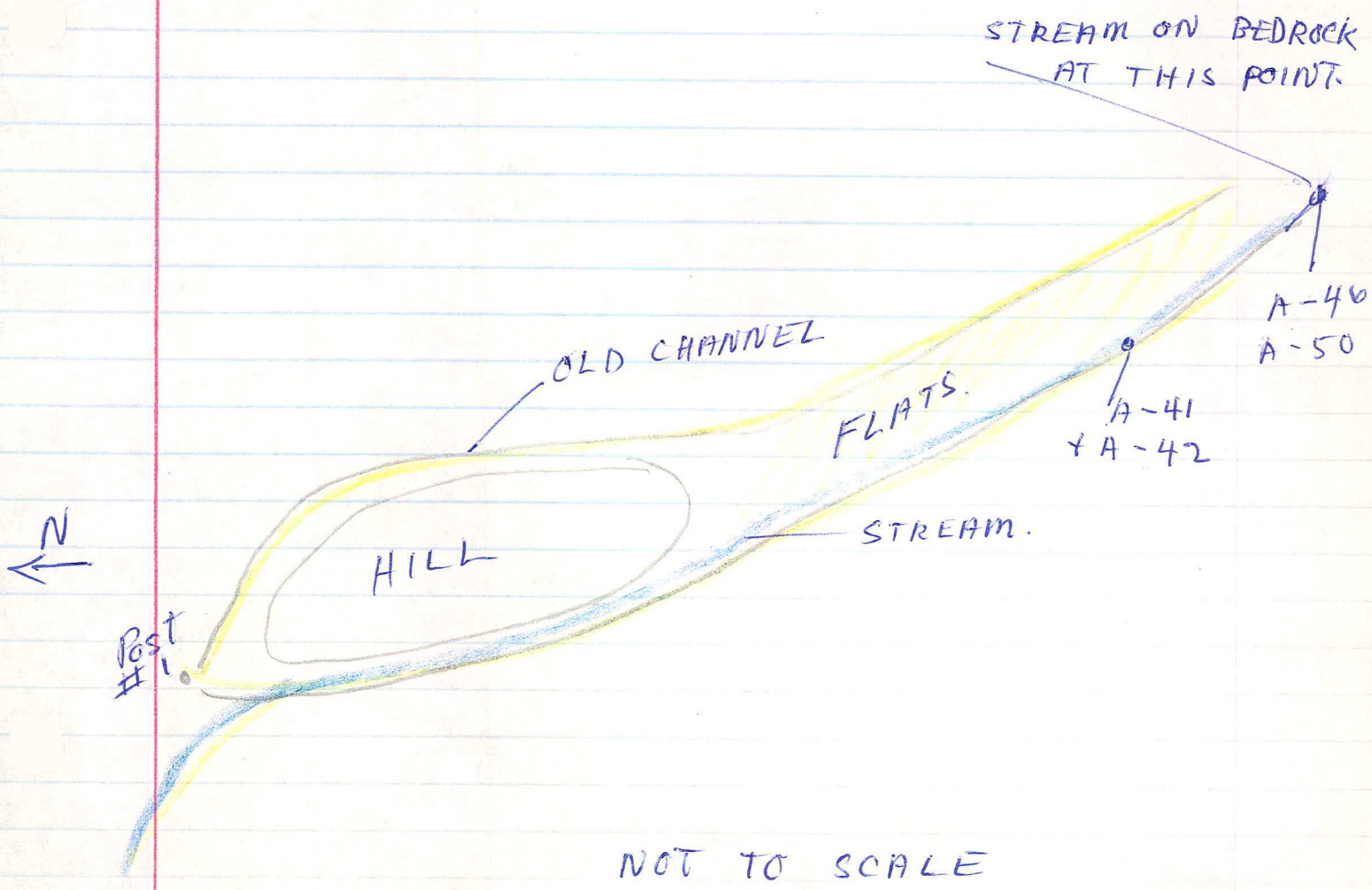
May 31/94

- Samples A-41 & A-42 were taken farther upstream, and yielded a fair amount of black sands.

June 1/94

- Today I continued on upstream from samples A-41 & A-42. I found a quartz boulder (about 14") in the streambed. After digging this out, there were pieces of bedrock, and smaller pieces of quartz. (about double fist size) Going a little farther up, the stream is right on bedrock, and I dug a trench about 1 ft deep and 5 feet long, removing large slabs of bedrock and chunks of quartz. There was a good amount of black sands in the samples I took, but very few colours. (A-46 to A-50)

- Tomorrow I will move farther upstream.



(20)

June 2/94

Today I followed the small stream to its origin. It went upstream in almost a straight line for about 1/4 mile from sample A-50.

A-50 is on bedrock, and the stream is on bedrock for about 100 ft. angling upward. Then there is a long, almost level stretch where there is no visible bedrock. (about 400 yds.) Then bedrock is visible again. This would indicate a dip in the bedrock which could contain a pay streak.

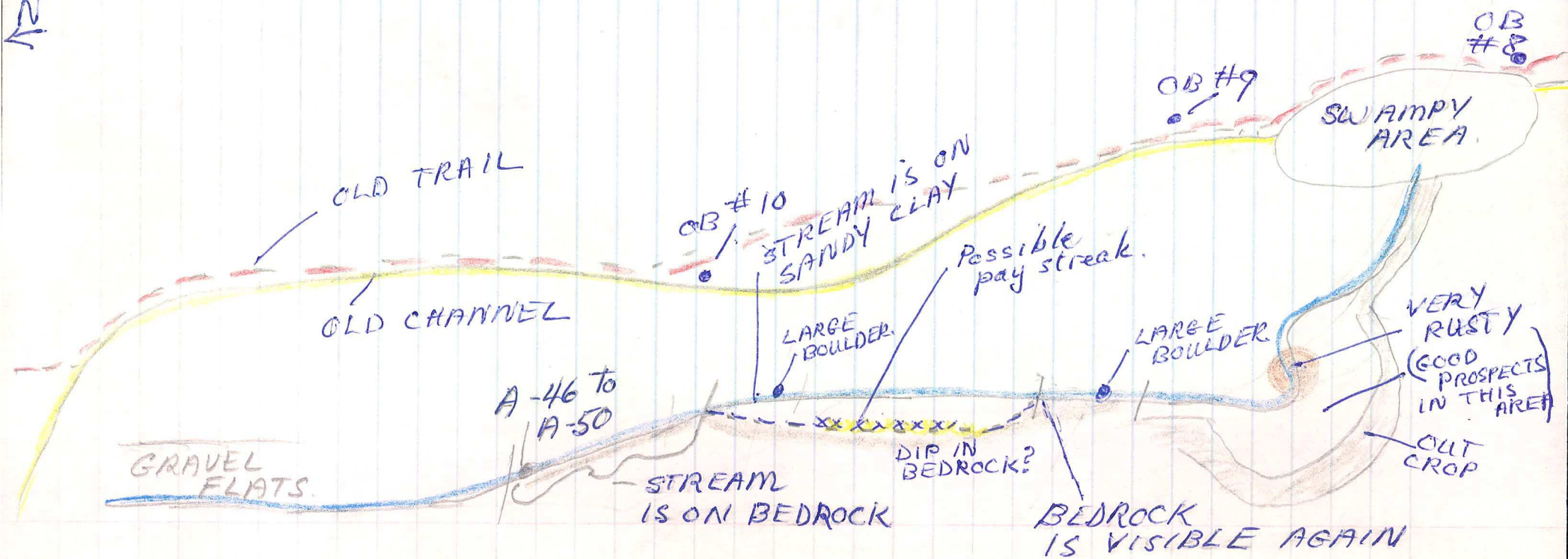
There were two very large boulders beside the stream. One is just before the stream levels out, and the other is above the second site of bedrock.

The straight part of the stream ends at an outcropping which is almost a circle, containing a small pool. It then turns to the left and ends up in a swampy area indicated as OB. #8 on map #3 (May 16).

The stream in the pool area is very rusty, indicating a possible mineral deposit. From the lay of the land, this would be a good spot for minerals ~~and~~ to collect.

June 2 (94)

N



NOT TO SCALE

(21)

June 2/94

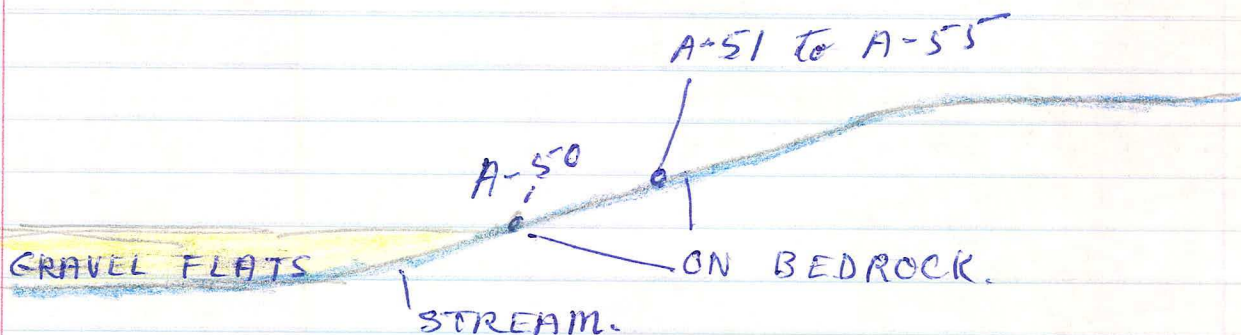
Today I went about 30 ft upstream from sample A-50 and dug between 2 large pieces of bedrock. I took samples A-51 to A-55 as I dug.

- There were lots of pieces of schist in the samples, rounded and smooth and shiny.

- The bedrock is very stained, black, as are the pieces of quartz (1-2" in diam)

I found 1 large piece of quartz about 6" square.

The samples yielded fair black sands, but I saw no colours.

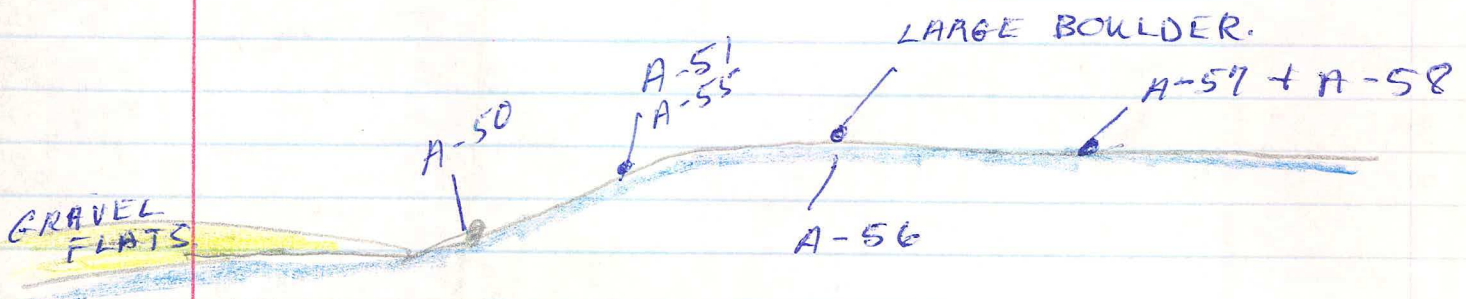


June 4/94

- Today I continued up from sample A-55 to the first large boulder beside the stream. I dug a hole 5' long by 2 ft. wide x 2 ft. deep but had to quit because of bedrock/permafrost. I will continue digging at a later date. The stream here is not on bedrock, but the boulder may be, as I have not reached the bottom of it yet. There is about 4' of boulder exposed right now.

I took sample A-56 but had poor results. This was a dirt sample and had very little gravel in it.

- Continued upstream and took samples A-57 + A-58. Very little black sand, no colours. I dug down 2 ft. and probed another foot, but did not hit anything solid. The soil here is a sandy clay.



23

June 5/94
Continued on up the stream and took
samples A-59 + A-60. of look

PAID LAST CLAIM

June 5/94.

Today I continued on upstream from samples A-57 and A-58. I came to a place where the stream is back on bedrock again. I took samples A-59 and A-60 here. I kept sample A-60 for an assay sample. While digging, I encountered large slabs of quartz with schist mixed in the quartz. It was also very stained (black). One rock was quartz on one side and bedrock on the other. This could have come from a vein.

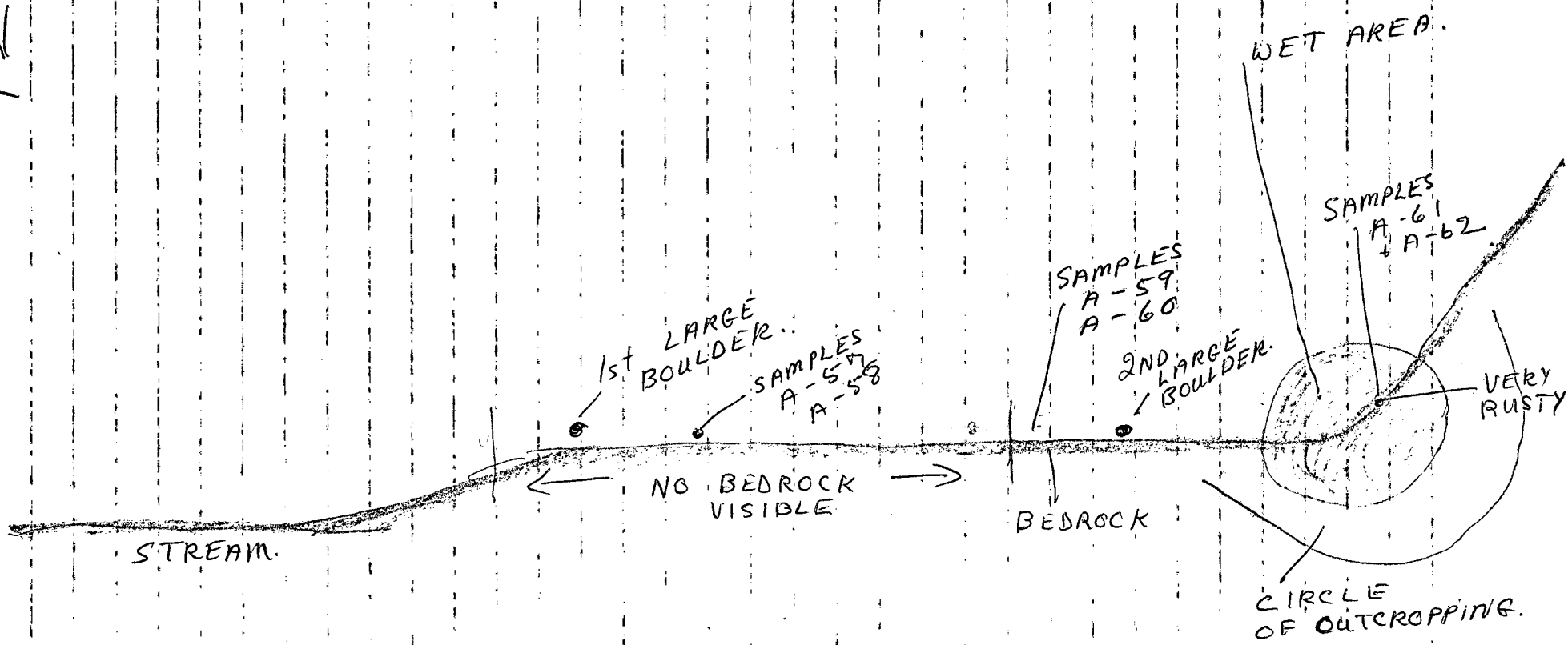
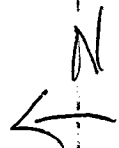
Farther upstream is the second large boulder. These large boulders are covered with moss and are in permafrost, so I will concentrate on one at a time as far as digging goes.

- Farther up ~~is~~ the stream angles to the southeast and here it is in a circle of outcropping. The soil here (and gravel in the stream) is very rusty, showing good mineralization. I took samples A-61 + A-62 in this area.

- Sample A-59 had fair black sands and was mostly fine gravel.

- Sample A-61 + A-62 were also fine gravel, with very little black sands visible, but this may have been due to the rust.

June 5/94

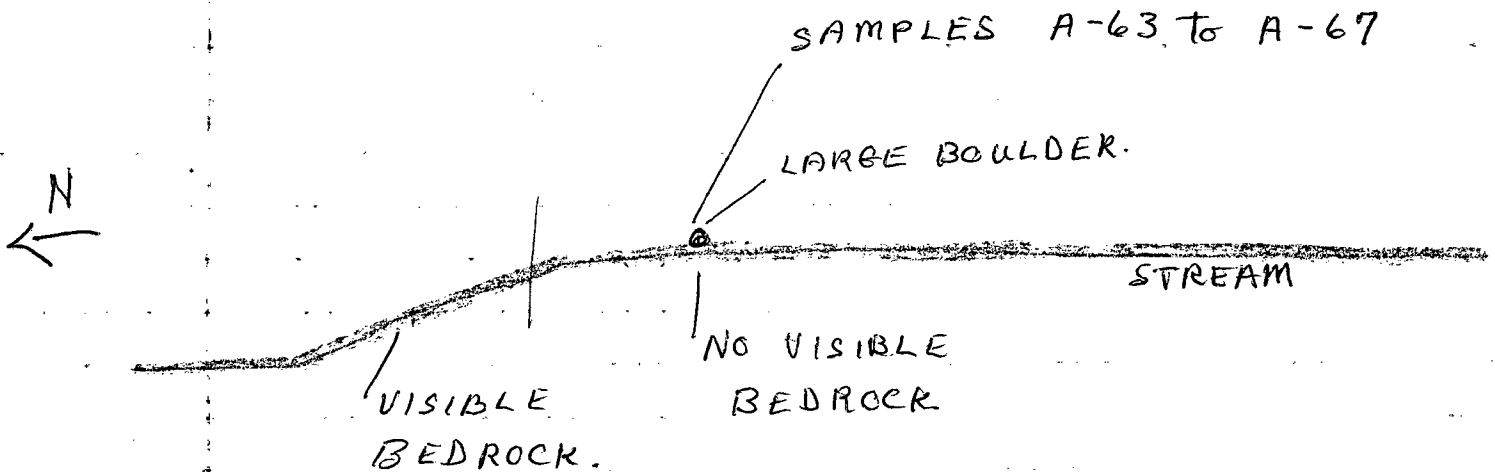


NOT TO SCALE

①

June 8/94

Today I went back to the first large boulder and continued to dig. I took samples A-63 to A-67 and had to discontinue again due to permafrost. These samples were fine sandy clay and contained good black sands. This is encouraging, but I still have a ways to go before I get to the bottom of this boulder, to see if it is on bedrock or not. There is now about 5 ft. of rock showing and the hole itself is about 3ft. wide, x 3ft. deep.

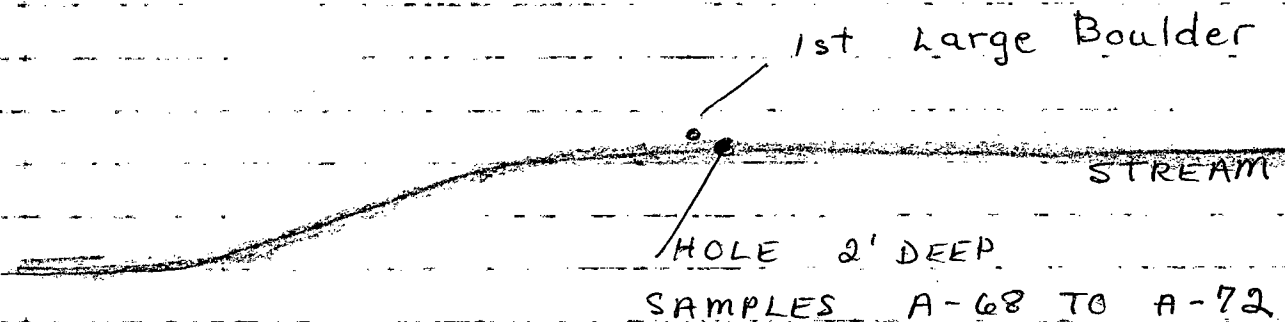


NOT TO SCALE

(2)

June 9/94

In the stream near the first large boulder, I dug out a section as deep as I could go (about 2 ft.). There were large chunks of quartz (stained black) and a large piece of bedrock (16" long). I was trying to discover how far bedrock was down, but was unable to hit anything solid. I took samples A-68 to A-72 from here. The top two samples (A-68 + A-69) had more black sands than the lower deeper sample. I had to discontinue digging due to the depth of the water.

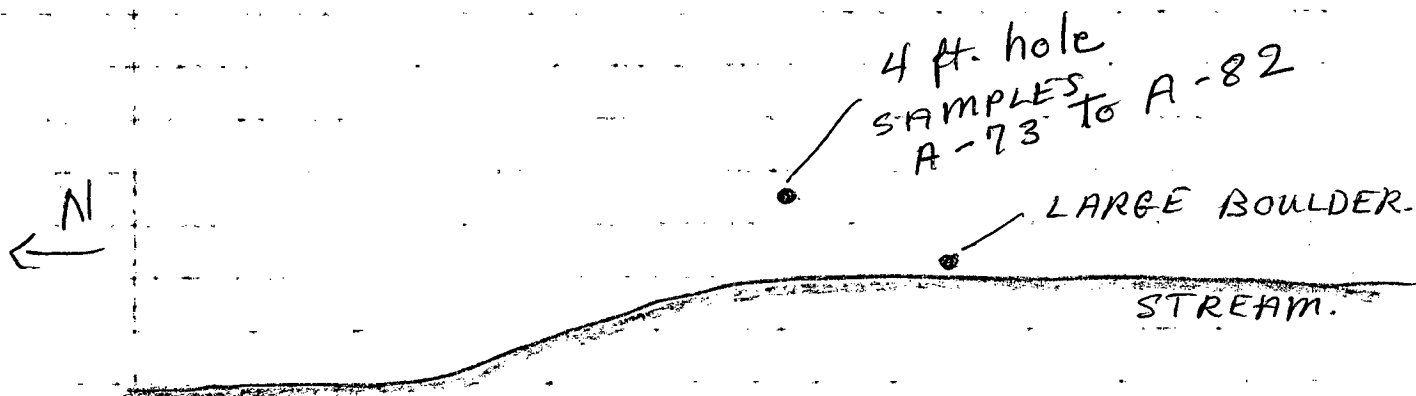


(3)

June 10/94

- Near the large boulder, I noticed a mound of gravel on the moss. This was about 25 ft. from the boulder. (downstr.) I dug it up and uncovered another smaller boulder (about 2 ft. diam) After the initial layer of gravel under the moss, there was a layer of green clay about 3 inches thick. Then a layer of blue clay, about 1 ft thick, and then a thin seam of rusty fine gravel. Then more blue clay with rocks in it. The rocks are smooth and a bit rounded. There was also another small boulder about the same size as the first one, underneath the first one. I went down 4 ft. beside these boulders and had to quit due to water.

- I took samples A-73 to A-82. I saw no colors and had fair black sands.

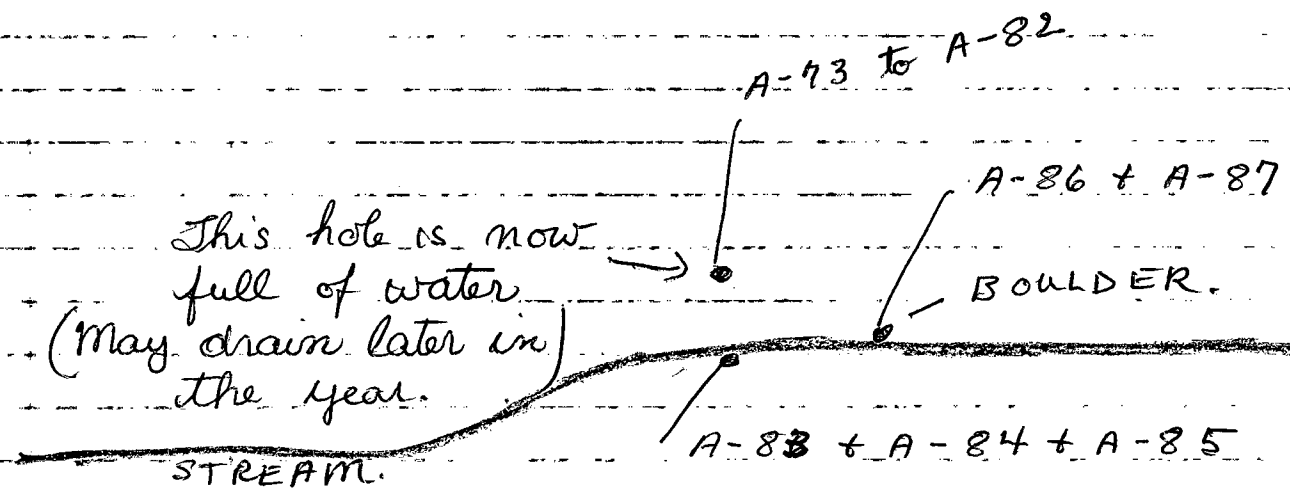


NOT TO SCALE

(4)

June 11/94

- Went back to the large boulder and dug as far as I could, but once again encountered permafrost.
- This will have to be left till the end of August or perhaps drilled & blasted out.
- I took samples A-83, A-84, A-85 from the stream just down from the boulder. fair black sands.
- I took samples A-86 & A-87 from the boulder, but results were poor, as this is only black dirt & silt.



(5)

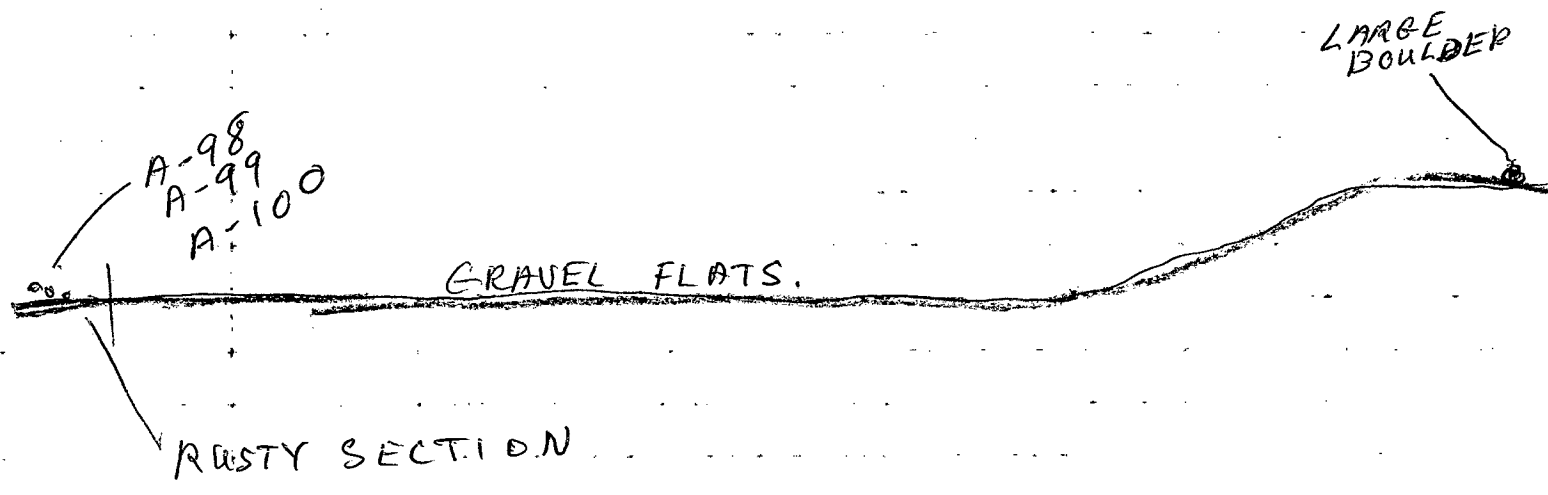
June 12/94

Spent today digging where the stream is on bedrock. (Where I took samples A-51 to A-55)

I panned out 10 samples here A-88 to A-97. I found two small pieces of gold, perhaps 1/8 gram each. This gold is tough, and appears to be the same type that is mined out of Lake Creek, which could mean that Lake Creek did run in this channel at one time.

This would be a good area to set up a small test sluice and run a yard through to get a more accurate reading.

I also took samples A-98 to A-100 from the section of the creek that is very rusty. (Near A-43 + A-44) There is a lot of black sands in these samples.

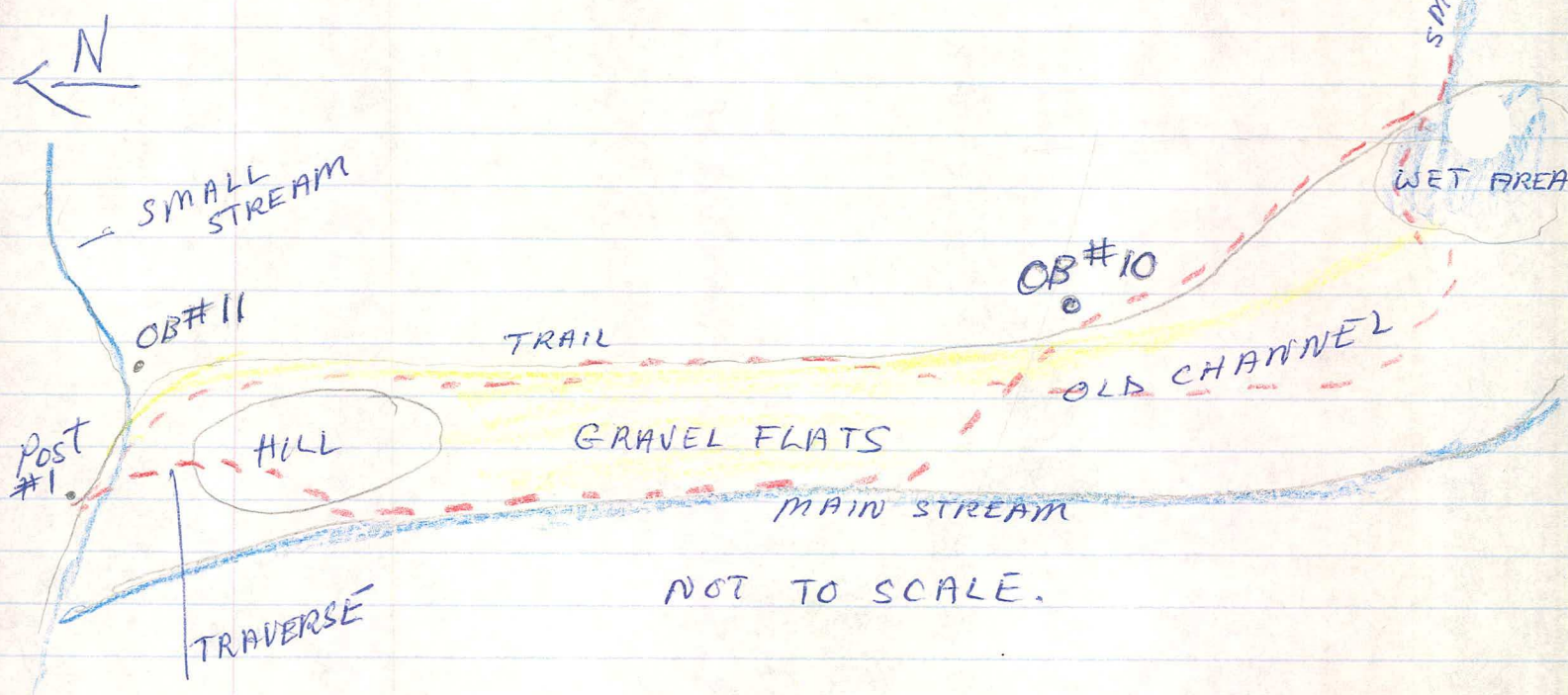


GORDON LAUTAMUS
PROSPECTING
PROGRAM
1994

(1)

June 23/94

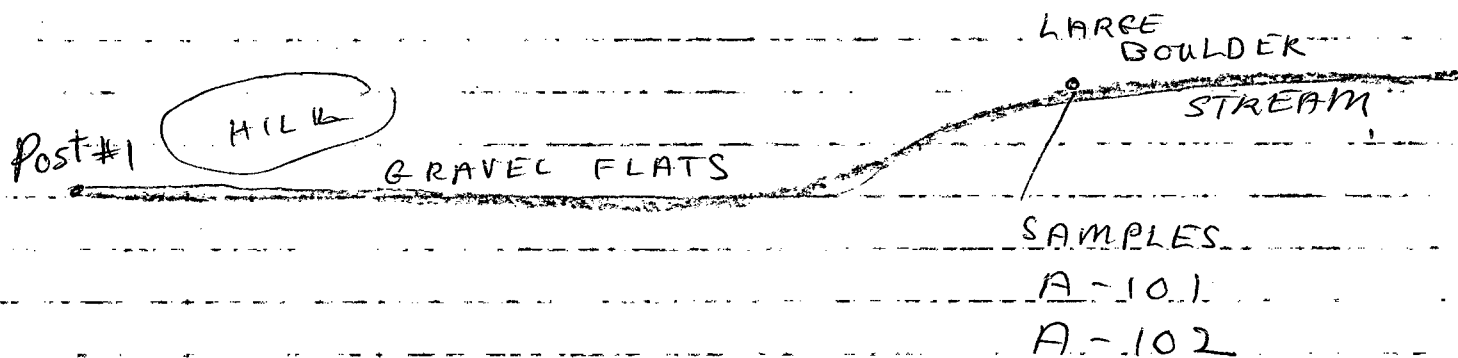
Today I went on an exploratory trip. There is another small stream coming down just above OB#10. I did not follow it all the way up, but will do so at a later date. Also, the stream running along the trail which comes down the mountain at OB.#11 is running again, harder than it was during spring runoff. It may originate from Upper Cottonwood creek.



(2)

June 24/94

Today I went to dig some more at the large boulder. The permafrost was out, but could only dig for a while and had to quit due to groundwater. I have reached a depth of 7 feet from the top of the boulder, (This is to give an idea of the size of it) and it still continues down. There was a layer of very rusty gravel below the mud and silt, about 1" thick. Then there was a silty clay, mixed with fine gravel. There is a good possibility that this boulder is on bedrock, however it would require machinery to reach that depth. I took samples A-101 + A-102 in the rusty gravel. There was black sands but I could not detect any colors.



3

July 24/94

Today we took a test sluice into the area where the stream is very rusty and sluiced 1 yd of material. Got quite a lot of black sand as well as a few cobs. I could not reach bedrock by hand due to ground water.

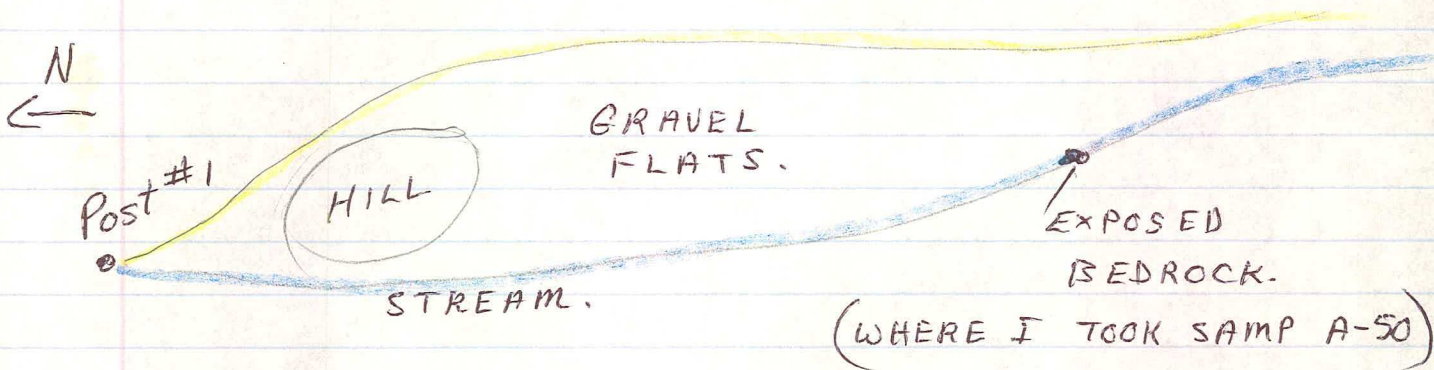


NOT TO SCALE

(4)

July 25/94

Today we took the ^{test} sluice to an area where bedrock is exposed. Sluiced about 1/2 yard of material. (Not counting large rocks) The results were poor. This area must have been washed out as it is ~~on~~ a fair grade. I need to dig in an area past the exposed bedrock to get into undisturbed gravel. For this, I will be required to use machinery, due to the water problem.



NOT TO SCALE

Summary Report
Gordon Lautamus
Prospecting Program 1994

The area which I prospected lies between Lake Creek and Cottonera Creek in the Livingstone Creek area. (Map 105E-8) There is an old channel which runs from claim # P-22685 on Cottonera Cr. to claim # P-12174 on upper Lake Creek. It was in the lower part of this old channel that I did most of my work. I also staked a 2 mile lease along this old channel.

You can gain access from either end of the channel, the north end being easier, as it is in lower country. There was a trail going through here at one time for moving equipment, but has grown in considerably, and would require heavy equipment to make it passable by other than foot.

This old channel would be easy to mine, as the bedrock is shallow. I believe the reason it was left alone by the old timers was because of ground water. With today's equipment, it would be easy to mine. The bedrock is visible in several places in the stream and indicates pockets where there should be pay gravels. (Refer to map of June 2/94). Also, where the half circle of outcroppings should be a good place for gold to accumulate.

(2)

The assay on sample A-43 shows 71 PPB of gold. This works out to about \$1.00 per ton or about 2.00 per yd. This was basically a surface sample and shows that there are good possibilities at a greater depth. It also shows a high amount of manganese.

Sample A-60 shows less gold than A-43, but shows a very high concentration of manganese.

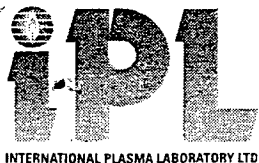
These two samples were taken about 1/4 mile apart, and both of them were screened to 1/16 inch. So the possibility of a large piece of manganese causing the high percentage on sample A-60 does not exist. Sample A-60 was also a surface sample. The rocks in this stream are all stained very black from the magne manganese. The manganese in this stream would warrant further testing and exploration, as it is difficult to find an economical deposit.

This channel is also quite high in chromium, (about 3/02% per ton.)

There is a good water supply, (Ground water is about 1 ft down in most places) although a lake or holding pond would have to be built and the water recycled from that. In that way, there would be no discharge into any stream, except for overflow from the holding pond, which would be clean water.

(3)

So, in total, we have easy access, shallow bedrock, and a good indication of viable deposits of gold and other minerals, (through the assay reports.) Also the terrain itself provides good places for minerals to collect. (Wips in the bedrock, etc.) I feel that more extensive testing should be done with large equipment, as it would be an economical way to prove the existence of mineral deposits. In many places the bedrock is only a few feet down. It would be a matter of pushing a trail into the area and digging down to bedrock with a backhoe.



CERTIFICATE OF ANALYSIS

iPL 94F2301

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

Client: Northern Analytical Laboratories
Project: Various 15 Pulp

iPL: 94F2301

Out: Jul 06, 1994
In: Jun 23, 1994

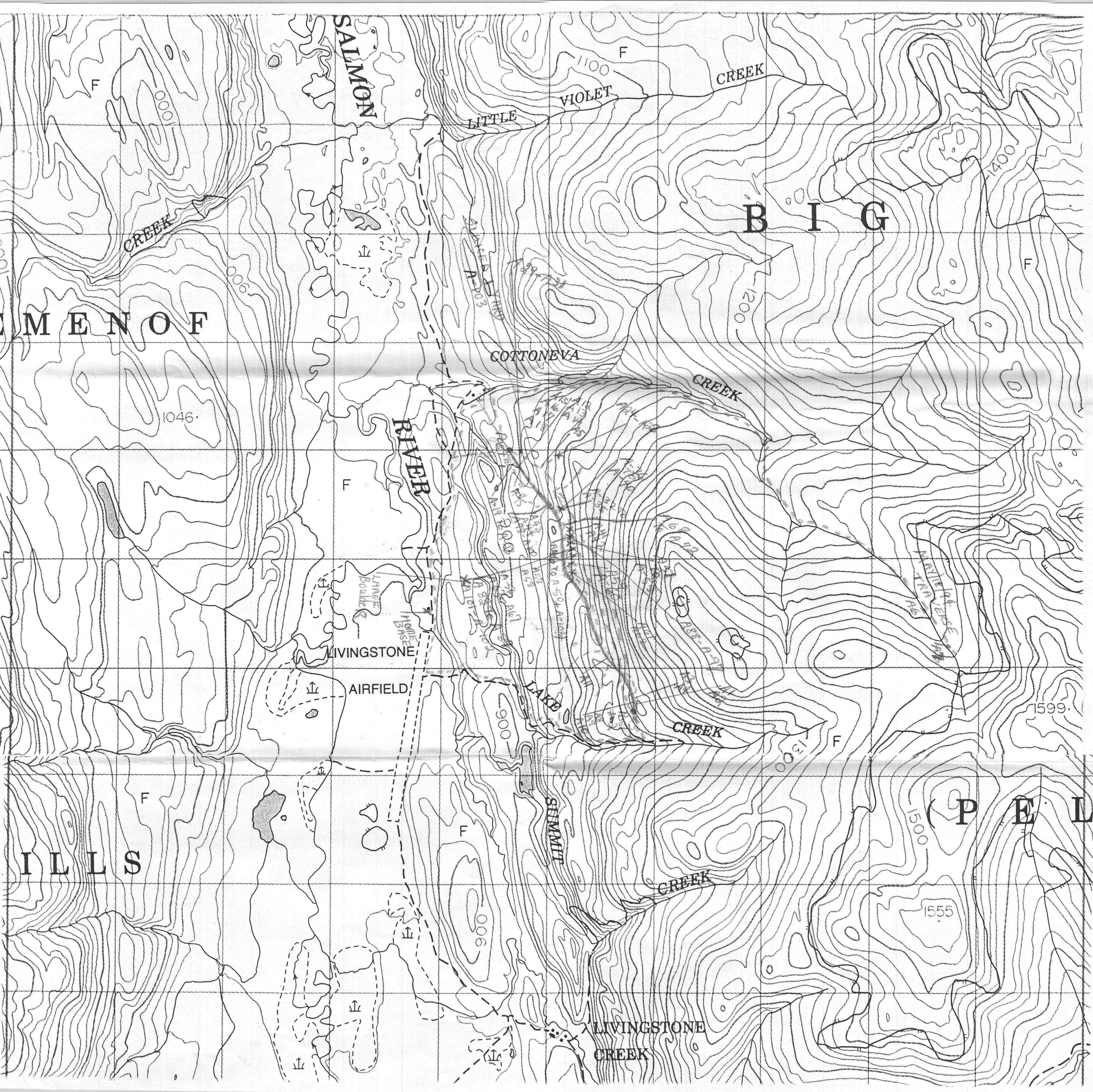
Page 1 of 1
[025911:54:14:49070694]

Section 2 of 2
Certified BC Assayer: David Chiu

Sample Name	Ca %	Fe %	Mg %	K %	Na %	P %
00489 A-43	0.43	2.10	0.43	0.10	0.03	0.06
00489 A-60	0.38	1.85	0.45	0.10	0.03	0.05

Min Limit 0.01 0.01 0.01 0.01 0.01 0.01
 Max Reported* 9.99 9.99 9.99 9.99 5.00 5.00
 Method ICP ICP ICP ICP ICP ICP

---No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate Z Max=No Estimate



M E N O F

I L L S

B I G

(P E L

SALMON

RIVER

LITTLE

VIOLET

CREEK

COTTONEVA

CREEK

LIVINGSTONE

AIRFIELD

LAKE

CREEK

SHIMMIT

CREEK

LIVINGSTONE
CREEK

1046

1100

1200

1400

1599

1500

1555

1006

F

F

F

F

F

F

F