BRITISH COLUMBIA

PROSPECTORS ASSISTANCE PROGRAM

MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	1994/95
REPORT #:	PAP 94-37
NAME:	LESLIE MOLNAR

SKEFF CREEK PLACER DEPOSITS

BRITISH COLUMBIA PROSPECTORS ASSISTANCE PROGRAM 1994-95

FINAL REPORT REFERENCE NO 94-95 P116

By Les Molnar and Jim Arnusch, Grand Forks, B.C.

Prospecting for suspected placer deposits on a bench south of Skeff Creek,B.C.

Completed in fulfillment of Prospectors Assistance Program. Requirement to: Vic Preto, P.ENG.
Manager
Prospectors Assistance Program
Ministry of Mines
Victoria, B.C.

Jim Arnusch 94-12-22

L Molnar 94-12-22

APPENDIX 6

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)

B. TECHNICAL REPORT

- One technical report to be completed for each project area
- Refer to Program Requirements/Regulations, section 15, 16 and 17
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (see section 16) required with this TECHNICAL REPORT

Name LES MOLNAR Reference Number 94-95-P 116

LOCATION/COMMODITIES

Project Area (as listed in Part A.) MAIN GULLIE SKEFF CREEK SOUTH BENCH Minfile No. if applicable _____

Location of Project Area NTS 82 E/2E Lat 49° 4' Long 118° 35'

Description of Location and Access START AT PHOENIX CENOTAPH (KM 00+0) THENCE DOWN LONE STAR ROAD (HAULAGE ROAD) DUE SOUTH ABOUT 7.63 Km. THENCE TURN OFF ONTO CLAIM ROAD AND 600 M to ACTIVE AREA.

Main Commodities Searched For PLACER GOLD ON BEDROCK AND OTHER CONTACTS TO DEPTH OF 7 METERS

Known Mineral Occurrences in Project Area NUGGET GOLD IN SKEFF CREEK JUST ABOVE JULY CREEK. FLOUR GOLD SCATTERED OVER MUCH OF SOUTH FLANK OF SKEFF CREEK / SKARN DEPOSITS ABOVE MAIN TARGET GULLIE.

WORK PERFORMED

1. Conventional Prospecting (area) 1000 m x 500 m ±
2. Geological Mapping (hectares/scale) N/A
3. Geochemical (type and no. of samples) N/A
4. Geophysical (type and line km) 600 m
5. Physical Work (type and amount) 450 m^3 OF MATERIAL / 69 SAMPLES / ~~Access via~~ 600 M NEW TRAILS
6. Drilling (no. holes, size, depth in m, total m) NONE
7. Other (specify) RECLAIMED OLD WORKINGS (HOLES UP TO 5.5 m DEEP) - TWO

SIGNIFICANT RESULTS (if any)

Commodities SEE ATTACHED REPORT Claim Name JILL GROUP PC

Location (show on map) Lat " Long " Elevation 1200 meter ASL

Best assay/sample type SEE REPORT

Description of mineralization, host rocks, anomalies

SKARN, SHALE, LIMESTONE GREENSTONE

GLACIAL ACTION - OVER BEDROCK GULLIES

THE SEARCH WAS FOR PLACER DEPOSITS IN AN ANCIENT (DRY) WATER COURSE FROM 2m to 7m depth approx.

Supporting data must be submitted with this TECHNICAL REPORT.

TABLE OF CONTENTS

I SUMMARY

Project 94-95 P116 funded partially by the Prospectors Assistance Program was completed about November 4,1994. The works consisted of excavating 10 trenches at various locations within the target area of the Jill Group of claims. The holes were dug with a cat excavator from 2 to 7 meters in depth and prospecting(sampling) for placer deposits was done with hand bucket samples, classifiers and gold pans.

The results of the prospecting showed fine gold scattered throughout the claim area but only in the top 3 meters of glacial till material. No commercial placer deposits were discovered during the 1994 program. Future prospects likely would be lower elevations closer to the Skeff Creek fluvial plain.

II INTRODUCTION

The area prospected under Grant 94-95 p116 and Mines approval # 94-0400436-288 is a sloping bench on the southern flank of the watershed of Skeff Creek(see figure 1 and 2). The area prospected is a bench at about 1200 meters in elevation transected by several gullies which run at between 10 and 40% slope. One of these gullies running at a north-south direction was the target area.

The area prospected is about 10-12 km. due northwest of Grand Forks. The east-west boundary of placer claims PC 321120 (Jill 3) and PC 315348 (Jill 1) were the target sites.

A total of 10 trench sites within the placer area were prospected in 1994 for placer deposits. Previous work in 1993 on the placer claims Jill 1 and Jill 3 indicated gold-bearing glacial soils down to a depth of about 2 meters. This was the maximum depth at which hand mining could occur because of the heavy bedrock and hardpan precluded easy digging. The 1994 prospecting was therefore planned to utilize heavy machinery (cats and excavators) to access contact points(bedrock and false bedrock) to determine if coarse gold in commercial quantities was available for mining.

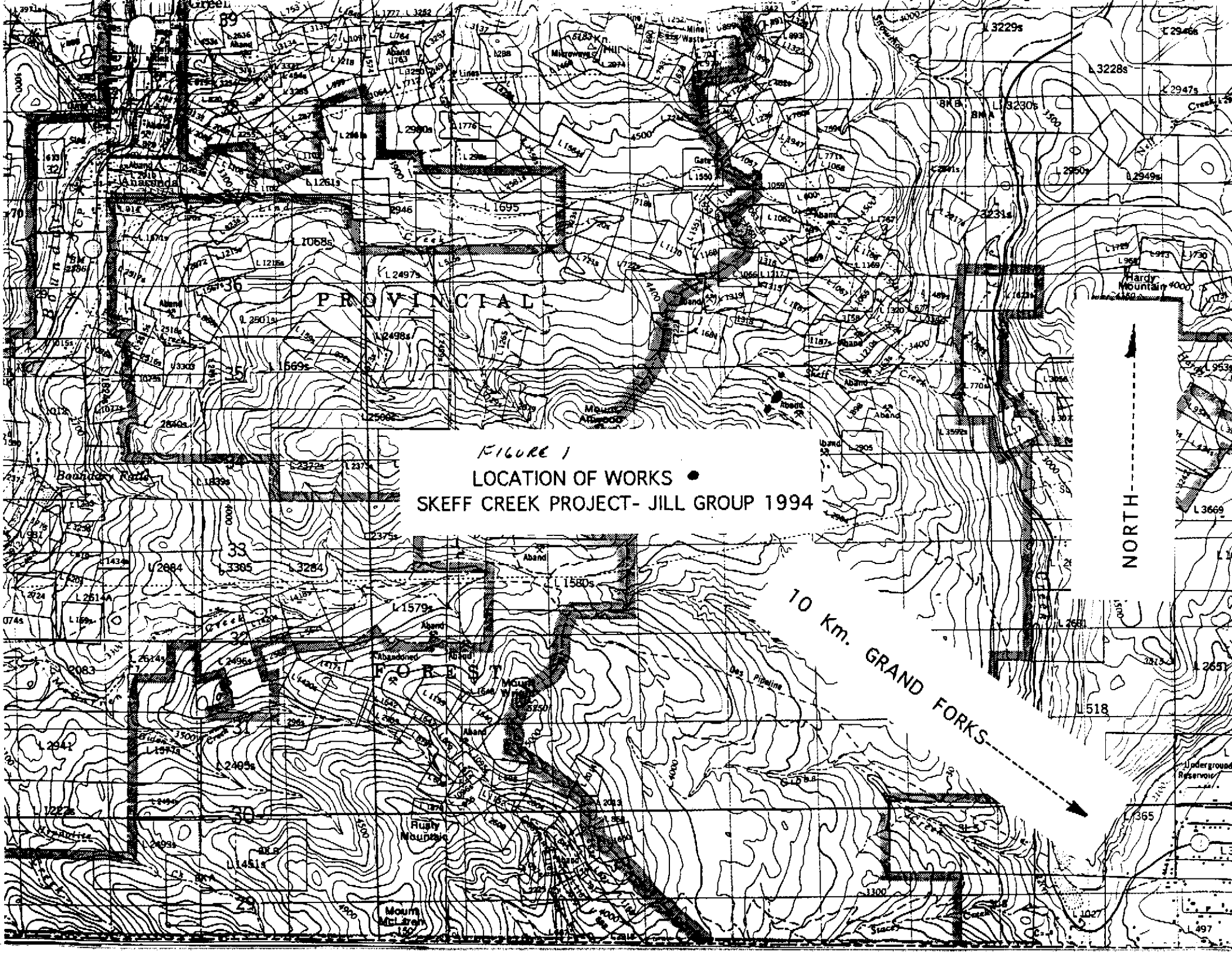


FIGURE 1

LOCATION OF WORKS •

SKEFF CREEK PROJECT- JILL GROUP 1994

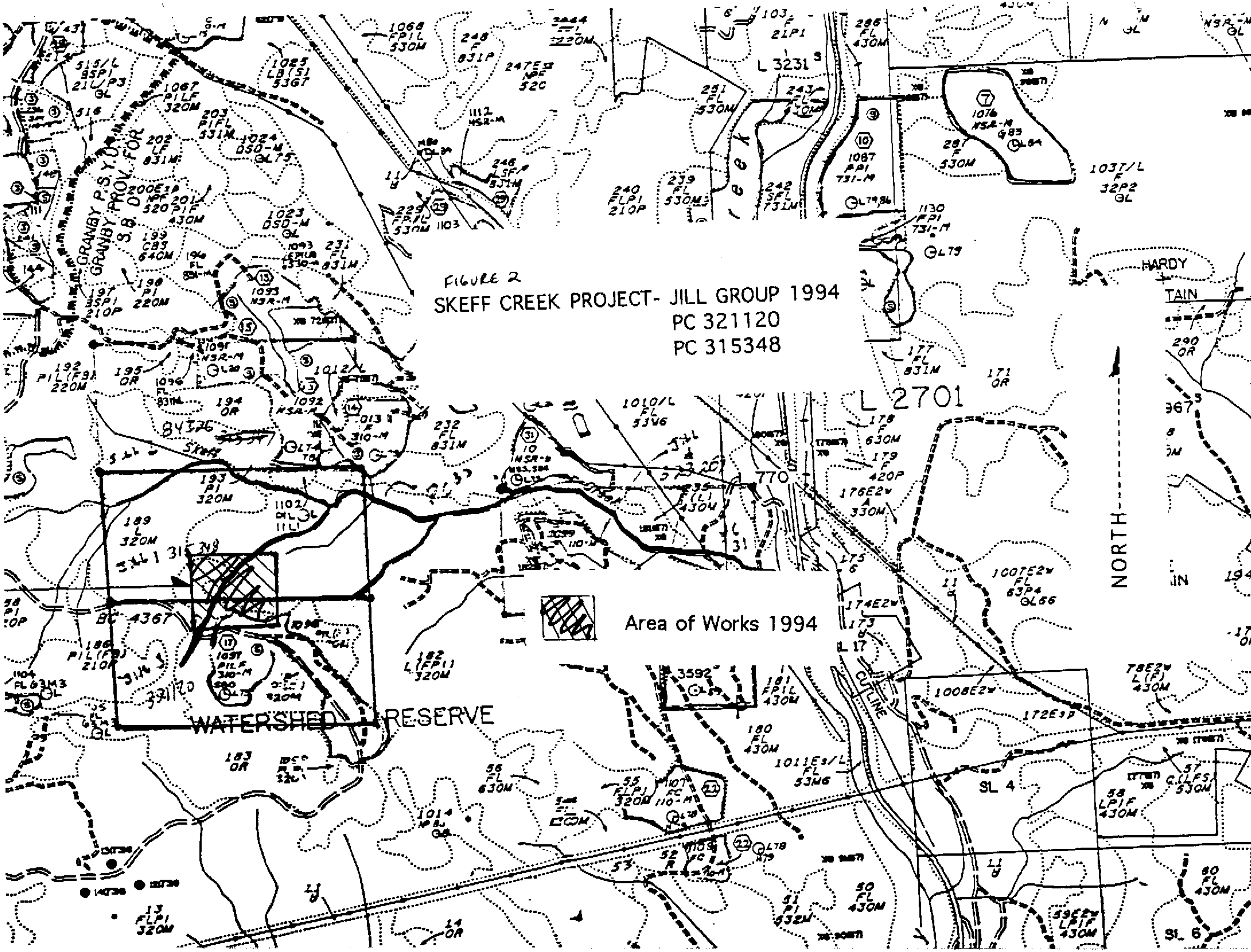


FIGURE 2
SKEFF CREEK PROJECT- JILL GROUP 1994
PC 321120
PC 315348
Area of Works 1994
NORTH
L 2701
L 3231
L 770
WATERSHED RESERVE
BC 4367
GRANBY P.S.Y.U.
GRANBY PROV. FOR.
HARDY
CUTLINE
3592
SL 4
SL 6

III PLACER GEOLOGY OF THE SKEFF BASIN

The authors have seen some Skeff Creek coarse gold nuggets up to 1/4 oz. in the possession of a Greenwood prospector. These nuggets came from the mouth of Skeff Creek near the confluence with July Creek. During the summers of 1992 and 1993 we prospected about 2.5 km. upstream of the mouth of Skeff Creek and found some coarse colours in gravels ajacent to the creek. Later in 1993 we prospected on the south flank of Skeff Creek over Jill 1 and Jill 3 claims and found gold bearing gravels in an ancient dry gully.

According to Mines Inspector Church of Victoria, there are several areas of mineralization (skarns) above where we prospected in 1993 and in 1994. The authors surmised that bedrock gullies lying at right angles to Skeff Creek(on the southern portion of the basin) may act as riffles trapping gold moved by glaciers. The glaciers likely moved in a southeasterly direction over the south flank of Skeff Creek and retreated in a northwesterly direction. Our hand prospecting in 1993 was only able to get down to 2 meters depth and only fine flour gold was recovered.

The authors thought that the main gully prospected during the 1994 program may have gold targets concentrated at depths between 3 and 7 meters. The gradient of the gully varied between 10% and 20% over most of the length which we felt was an ideal gradient to recover gold trapped by water or other movement. Studies have shown that a 5 degree grade on a riffle system is the ideal slope to trap moving gold of any size.

The placer deposits along the main SkefF Creek are spotty . It may be that the main Skeff Creek has too much overburden to reach a bedrock or false bedrock contacts, except near the mouth of the creek. It may be wise after the 1994 works, to re-focus future prospecting activity on the Jill Claims to the lower benches of Skeff Creek and to the fluvial plain itself.

IV 1994 WORKS REFERENCE 94-94 P116 PROJECT
SELECTION OF PROSPECT SITES (TARGETS)

Shown in figure 3 (at end of report) are 10 sites (A to J) prospected within the project area. A great deal of time was spent piling and cutting brush and gaining access to the project site including old logging roads.

Old prospector diggings (up to 5 meters deep) were present on the project site ,some of which were dangerous to both man and animals. These three very large holes had to be filled in during and after the 1994 works.

Sites A,B.C.D.E. and F were selected as the main targets sites within the main gullie by carefully visualizing slopes and locations which would be condusive to deposits of gold. These six sites were then excavated to depths of from 3 to 7 meters. Samples were taken at various depths at likely contact points, i.e. between hardpan and loose glacial till above bedrock.

Site G was located about 100 meters west of the main gully targets described above. It was the site of spring water runoff. The hole was dug to provide water for the project but the excavation came up dry. Several samples were taken from site G for panning out.

Site H was a large water bar constructed for drainage control. Site I was located on a narrow gully running parallel to the main target gully and it was dug to a depth of about 3 meters and several samples were taken. Site J was the last one chosen and was located below the main target gully(about 100 meters downstream).

V. RESULTS OF THE 1994 PROSPECTING PROGRAM ON SKEFF CREEK BENCH

Shown in table 1 are the sample results of our 1994 program. Traces of gold(fine flour gold of 400-800 mesh size) and some colours were found at every site prospected (sites Ato J). The colours were about 100 to 150 mesh and infrequent. No gold was found at any site below 3 meters depth. All contacts tested came up empty of sizable quantities of gold.

Shown in table 2 is a cross-sectional diagram of rock types encountered at various depths and the approximate location where samples were taken.

A false bedrock of hardpan occurred frequently at a depths of from 2.5 to 3.5 meters. Above the hardpan were loose glacial till material which were very silty and contained all the particulate gold. Below the hardpan were limestone bedrocks,broken limestone boulders,sulphide sands(red goo),shales,and small amount of granite boulders. Gold was non-existant above all these bedrocks.

TABLE 1

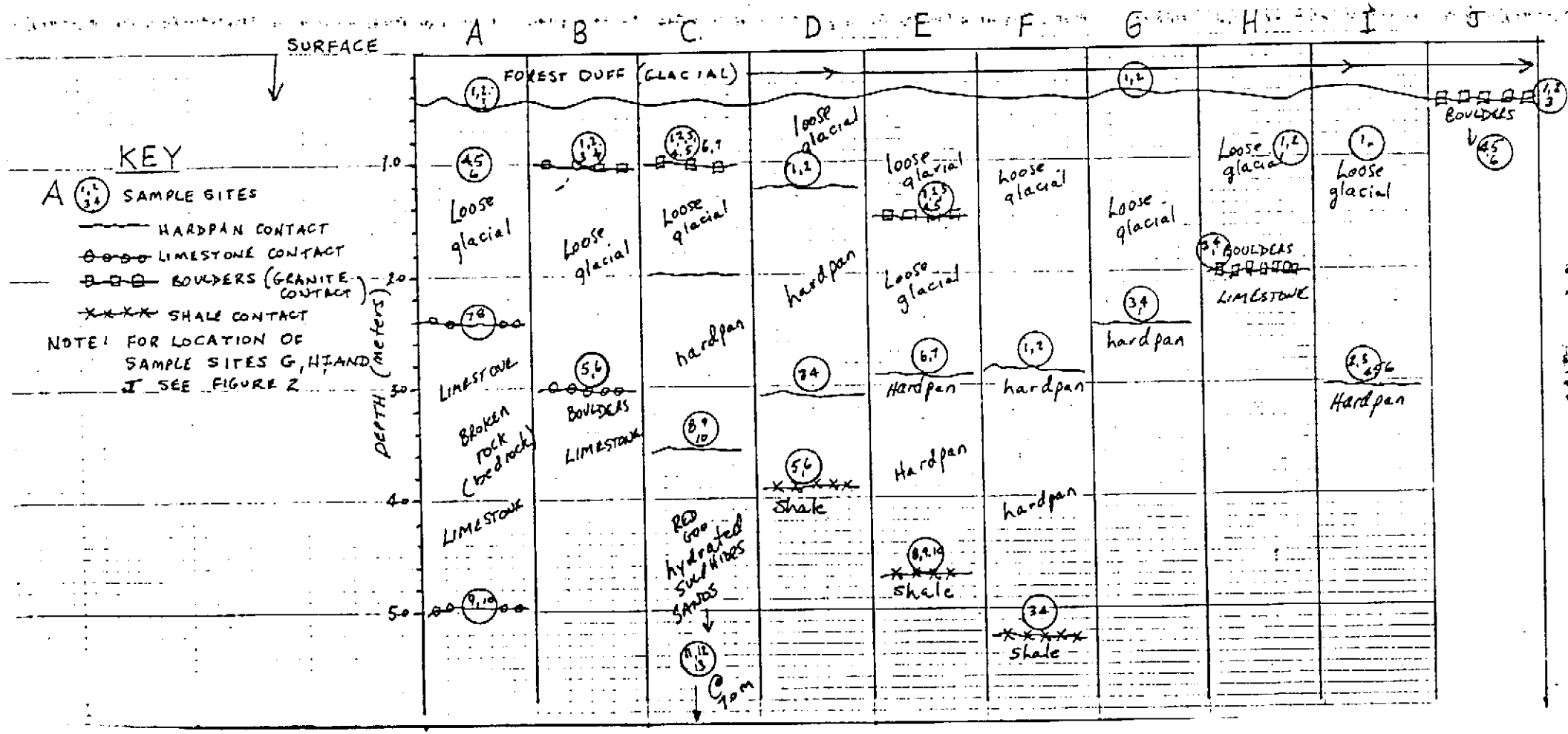
SAMPLE RESULTS 1994 JILL GROUP

SAMPLE NO.		DEPTH (m)	color(s)	trace(s)	NO GOLD
A	1	.4	✓	✓	
	2	.4	✓	✓	
	3	.4	✓	✓	
	4	1.0		✓	
	5	1.0		✓	
	6	1.0		✓	
	7	2.4		✓	
	8	2.4		✓	
	9	5.0			✓
	10	5.0			✓
B	1	1.0	✓	✓	
	2	1.0	✓	✓	
	3	1.0	✓	✓	
	4	1.0			✓
	5	3.0			✓
	6	3.0			✓
C	1	1.0		✓	
	2	1.0		✓	
	3	1.0		✓	
	4	1.0		✓	
	5	1.0		✓	
	6	1.0		✓	
	7	1.0		✓	
	8	3.5			✓
	9	3.5			✓
	10	2.5			✓
	11	7.0			✓
	12	7.0			✓
	13	7.0			✓
D	1	1.2	✓	✓	
	2	1.2	✓	✓	
	3	3.0			✓
	4	3.0			✓
	5	3.9			✓
	6	3.9			✓
E	1	1.5		✓	
	2	1.5		✓	
	3	1.5		✓	
	4	1.5		✓	
	5	1.5		✓	
	6	3.0			✓
	7	3.0			✓
	8	4.7			✓
	9	4.7			✓
	10	4.7			✓
F	1	3.0	✓	✓	
	2	3.0		✓	
	3	5.2			✓
	4	5.2			✓
G	1	.3		✓	
	2	.3		✓	
	3	2.5			✓
	4	2.5			✓
H	1	1.0	✓	✓	
	2	1.0			✓
	3	2.0			✓
	4	2.0			✓
I	1	1.0		✓	
	2	3.0		✓	
	3	3.0		✓	
	4	3.0		✓	
	5	3.0		✓	
	6	3.0		✓	
J	1	.5		✓	
	2	.5		✓	
	3	.5		✓	
	4	1.0		✓	
	5	1.0		✓	
	6	1.0		✓	

69 TOTAL SAMPLES

TABLE 2

SAMPLE SITES



VI DISCUSSION AND FUTURE PROSPECTS ON SKEFF CREEK

(A) Enviromental Considerations

A good philosophy for prospectors and miners is to leave as few footsteps in the bush as possible and improve the land to a useful purpose when your job is done. On this project we are proud of the fact that we rehabilitated old workings. The area prospected has a mine history of at least 50 years as evidenced by numerous smaller workings scattered all over the countryside.

All forestry clauses were adhered to on the claim.. As few trees as possible were cut in order to access the area. Ninety-nine percent of all trees cut were deciduous non-commerical stems. One brush pile remains to be burnt.

The areas mined were all grass-seeded but may have to be reseeded and fertilized during May 1995. Three water bars were placed strategically over the 500 meters of road and trails. Erosion will not be a problem.

(B) In the Future

We will not prospect further the placer projects in the upper bench above Skeff Creek.. I believe the lower bench or the main Skeff Creek floodplain (about 50-100 meters across) should be prospected further. Past evidences of coarse gold in and near Skeff Creek may indicate placer deposits within Jill 1 and Jill 2 and Jill 4 claims. We propose to prospect the fluvial plain of Skeff Creek during the summer-fall of 1995.

SKEFF CREEK PROJECT 1994-JILL GROUP - PC 321120 and 315348

An investigation into suspected placer deposits on a bench south of Skeff Creek, B. C.

by Les Molnar and Jim Arnusch, Grand Forks, B. C.

Appendix 1- Partial Photo Record of 1994 Field Activities

Photo 1- During the summer of 1993 the authors prospected by hand an area on the south side of Skeff Creek located about 10 km. nw. of Grand Forks, B. C. Surface samples of glacial material showed traces and colors of gold. The 1994 notice of works submitted to the Ministry of Mines was designed to utilize heavy machinery to explore further and deeper for placer deposits at or near bedrock.

Photo 2- The access to the 1994 workings was primarily along old horse skid trails which had to be logged and extensively hand brushed and piled. The timber was primarily 50 to 60 years old.

Photo 3- Shows the areas brush being hand felled and piled

Photo 4- The lowermost portion of the dry streambed to be prospected during 1994

Photo 5- A contract faller was hired to fell about 12 danger trees before heavy equipment could be brought in

Photo 6- Large prospected holes (old workings) from the past 15 years were present on the Jill claims and reclaiming these old workings was part of the proposed works for 1994. These holes posed a serious hazard for both wildife and humans.

Photo 7- Another large prospector's excavation on a lower bench above Skeff Creek that was filled in during the 1994 work.

Photo 8- After hand clearing and piling brush a D-7 Cat was brought in to improve trails and improve the primary gullie to be excavated

Photo 9- Mines Act Regulations were adhered to and enforced by the Mines Manager

Photo10- The old existing logging road was graded for about 500 meters from its start at the old Phoenix Road

Photo 11- The cat then skidded about 20 cubic meters of wood to a log landing

Photo 12- Access trail completed and primary prospecting site ready

Photo 13- The Caterpillar 225 ready on 94-10-07 to excavate the sample holes.

Photo 14- The cat excavating at Site "B"

Photo 15 - The cat on 94-08-08 starting the excavation of Site "C"

Photo 16- At Site "C" from about 3.5 meters to 7.0 meters depth a red sulphide type of granular material (red goo) The material contained no free gold, and unfortunately a sample was not sent away for metallic assay

Photo 17- the start of the excavation at Site " D"

Photo 18- Site "D" at about 4 meters depth

Photo 19 - Soft shale bedrock encountered on the Sites "D, E, and F"

Photo 20- Limesone substrate (bedrock) prevalent in Sites "A,B, and C"

Photo 21- Loosepack glacial (gold bearing) material, likely recently deposited till from receeding glaciers

Photo 22- Hardpan or densely packed and cemented gravels, could have been early glacial deposits, These hardpans were almost impossible to work loose without heavy machinery

Photo 23- Water Proved to be scarce on the project area and an attempt to dig a well at Site "G' (the site of an early season spring) proved futile. Wash water for panning samples was brought in a 250 gallon tank.

Photo 24- Material was bucketed out of the excavations or in the deepest depths was sampled with the Cat bucket

Photo 25- Samples were screened using a 1/4 inch minus classifier and either panned out on site/ and/or taken in plastic bags back to Grand Forks for panning.

Photo 26- Much of the material was very silty and had to be washed up to nine times to release sands, the surface glacial till held minute quantities of visible gold

Photo 27- The upper old prospector holes were sampled and then filled in with the Excavator and smoothed over. This was the start of the Reclamation of the Mine site.

Photo 28 - Looking down the primary gullie, the Excavator contoured the slopes of the holes as close to 2:1 as possible. This photo is looking down on site "E"

Photo 29 - Slopes Backbladed with the Cat 225

Photo 30- Lowermost part of Mine area showing bedrock laid in bed of gully to act as natural dams to pond any snowmelt water

Photo 31- Pile of logging debris to be burnt in Spring 1995

Photo 32- The whole of the disturbed mine area including the trails and log landing was grass seeded according to Forest Service grazing specs. The Mine area may have to be fertilized and reseeded according to Mines

Photo 33- Filling in a dangerous hole on 94-10-30 below Mine area as part of our 1994 reclamation program

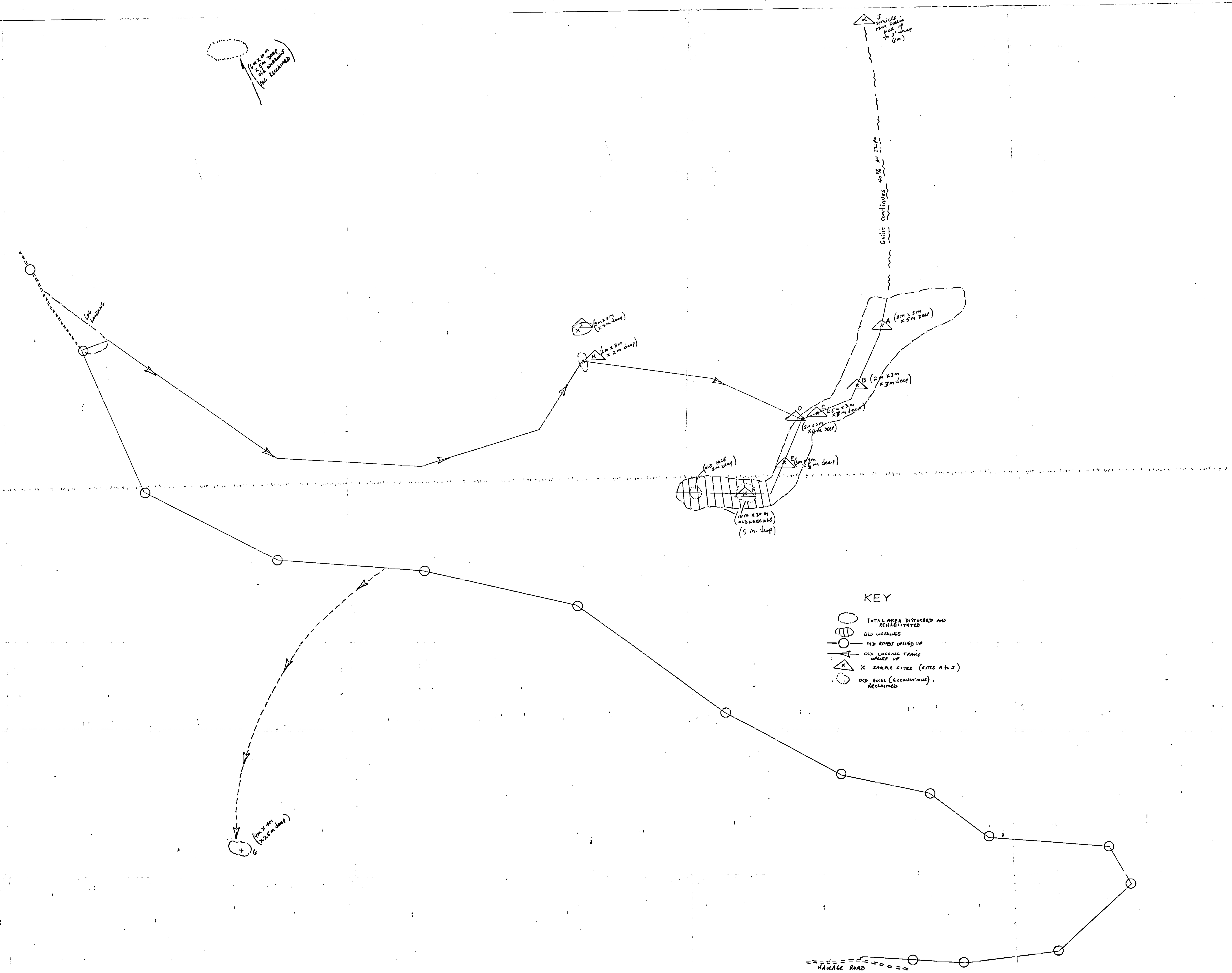


FIGURE 3
DRAWN BY L.N. MOLNAR
CHECKED BY J. ARNUTCH.
94-11-07

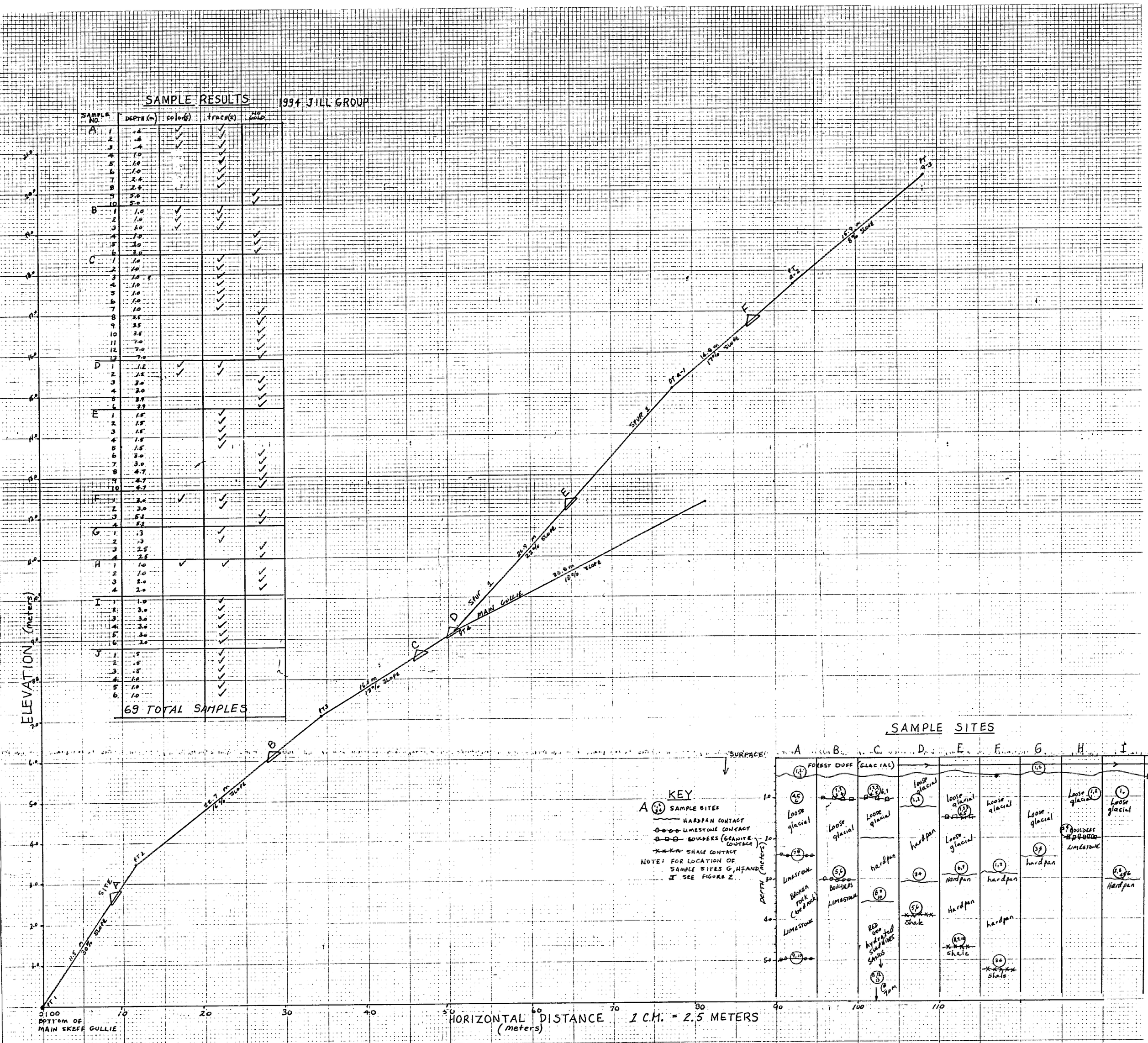
SCALE: 1:500
1cm = 5 meters

SKEFF - JILL GROUP TRAILS

SAMPLE RESULTS 1994 JILL GROUP

SAMPLE NO.		DEPTH (m)	color(s)	trace(s)	NO GOLD
A	1	.4	✓	✓	
	2	.4	✓	✓	
	3	.4	✓	✓	
	4	1.0		✓	
	5	1.0		✓	
	6	1.0		✓	
	7	2.4		✓	
	8	2.4		✓	
	9	5.0			✓
	10	5.0			✓
B	1	1.0	✓	✓	
	2	1.0	✓	✓	
	3	1.0	✓	✓	
	4	1.0			✓
	5	2.0			✓
	6	2.0			✓
C	1	1.0		✓	
	2	1.0		✓	
	3	1.0		✓	
	4	1.0		✓	
	5	1.0		✓	
	6	1.0		✓	
	7	1.0		✓	
	8	3.5			✓
	9	3.5			✓
	10	3.5			✓
	11	7.0			✓
	12	7.0			✓
	13	7.0			✓
D	1	1.2	✓	✓	
	2	1.2	✓	✓	
	3	2.0			✓
	4	2.0			✓
	5	3.9			✓
	6	3.9			✓
E	1	1.5		✓	
	2	1.5		✓	
	3	1.5		✓	
	4	1.5		✓	
	5	1.5		✓	
	6	3.0			✓
	7	3.0			✓
	8	4.7			✓
	9	4.7			✓
	10	4.7			✓
F	1	3.0	✓	✓	
	2	3.0		✓	
	3	5.2			✓
	4	5.2			✓
G	1	.3		✓	
	2	.3		✓	
	3	2.5			✓
	4	2.5			✓
H	1	1.0	✓	✓	
	2	1.0			✓
	3	2.0			✓
	4	2.0			✓
I	1	1.0		✓	
	2	3.0		✓	
	3	3.0		✓	
	4	3.0		✓	
	5	3.0		✓	
	6	3.0		✓	
J	1	.5		✓	
	2	.5		✓	
	3	.5		✓	
	4	1.0		✓	
	5	1.0		✓	
	6	1.0		✓	

69 TOTAL SAMPLES



D FIGURE 4	DRAWN BY: L.N. MOLNAR DATE 94-11-07
C SKEFF PLACER	CHECKED BY: J. ARNUSCH DATE 94-11-07
B JILL GROUP	PROJECT No.
A 1994 SAMPLING PROGRAM	DRAWING No.
REVISIONS	

FORM H308S