

MAP NO.  
115 0 15

ASSESSMENT REPORT X  
PROSPECTUS  
CONFIDENTIAL X  
OPEN FILE

DOCUMENT NO.: 092534  
MINING DISTRICT: DAWSON  
TYPE OF WORK: GEOLOGICAL

REPORT FILED UNDER: Bo HaKansson

DATE PERFORMED: 1987

DATE FILED: October 5, 1988

LOCATION: LAT.: 63° 53' N

AREA: King <sup>Salmon</sup> Dome

LONG.: 138° 56' W

VALUE \$: 3,546.00

CLAIM NAME & NO.:

WORK DONE BY: Bo HaKansson

WORK DONE FOR: Bo HaKansson

DATE TO GOOD STANDING

REMARKS:

\* ~~78~~ SOL  
# 137 JAE adjacent



M.R. file no. <i>Quartz Renewal Pending</i>
R.M.M.R. file no.
Date forwarded <i>20 Sept 88</i>

### TRANSMITTAL FORM

From ► Mining Recorder at: *DRWEN*

To ► Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

<input type="checkbox"/> NEW APPLICATION FOR PLACER LEASE TO PROSPECT	Name	
<input type="checkbox"/> RENEWAL APPLICATION PLACER LEASE TO PROSPECT	Name	Lease no.
<input type="checkbox"/> AFFIDAVIT OF EXPENDITURE ON PLACER LEASE	Name	Lease no.
<input type="checkbox"/> SECURITY DEPOSIT		
<input type="checkbox"/> FINANCIAL ABILITY		
<input type="checkbox"/> ASSIGNMENT OF PLACER LEASE NO.	From	To
<input type="checkbox"/> GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT.	Owner	
<input type="checkbox"/> DIAMOND DRILL LOGS	Claims	Claim sheet no.
<input checked="" type="checkbox"/> QUARTZ ASSESSMENT REPORT	Claims <i>B.H. Claims</i>	Claim sheet no. <i>115-0-15</i>
<i>Owners: B. Hakansson</i>	Type of report <i>Historical</i>	Submitted by <i>B. Hakansson</i>
	Cls. work performed on <i>YA 89946-953</i>	\$ req. for ren. application <i>\$3546.00</i>

Signature

REPLY ACTION **092534** Date returned *7 October, 88*

*Approved for amount required.*

*#98 SUL*

*J.L. Brennan*  
Signature

GEOLOGICAL REPORT  
ON THE  
KING SOLOMON DOME CLAIMS  
IN THE

DAWSON MINING DISTRICT

YUKON TERRITORY

63° 53' NORTH LATITUDE

138° 56' WEST LONGTITUDE

FOR THE

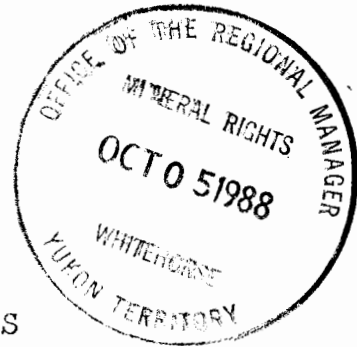
B H CLAIMS

SEPTEMBER 1988

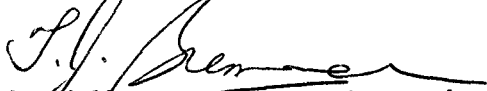
BO HÅKANSSON

NTS 115015

**092534**



This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 3546.00.



*for* Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.

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## INTRODUCTION

In July of 1987 I spent a couple of days on Gold Bottom Creek. I then came to understand that some interesting ground was still open.

The claims were staked (see map) in August 1987, on behalf of the high silver and lead content, to cover a suspected lode occurrence on favourable ground.

In staking the claims, I had some help from Mr. Hans Algotsson of Dawson City.

Geochemical sampling was carried out by myself during the summer of 1988. During the month of August I dug up some rock samples in order to get a better understanding of the geology of the claims.

## LOCATION, ACCESS AND VEGETATION

The claims cover an area of less than 2km<sup>2</sup>. To the east, borders the JAE claims on Hunker Creek, and to the west, Gold Bottom Creek.

As can be seen on the map, the claims are just a bit north of the King Solomon Dome.

Access to the claims is either via the road from near King Solomon Dome, or via Gold Bottom Creek.

Most of the Klondike District (King Solomon Dome is one exception) lies below the treeline.

Vegetation on the south and southwest facing slopes consist mostly of aspen and poplar mixed with birch. On the claims, there is quite a lot of thick underbrush which makes it difficult to walk and prospect on. On the south facing slope I found no permafrost, but did find some on the east facing slope, where the vegetation consisted of black spruce.

The ground is covered by very thick moss which passes downward into frozen clay-like material.

Down the hill into Little Gold Bottom Creek there is a little creek of which the left fork seems to be the most interesting.

## HISTORY AND PREVIOUS WORKINGS

When placer gold was discovered in the Klondike area in 1896, almost all favourable ground was staked during the next 10 years. In the early 1900,s plenty of work was done. In this vicinity practically all slopes were clear cut and there is a trace of a road leading towards the Dome.

Since the beginning of this century however, there has been much discussion where the supposed Mother Lode is to be found. In that discussion King Solomon Dome has been mentioned.

The claims are adjacent to the Mitchell claims, which were later on staked by Orekun, and then in the year 1987, by JAE.

On these claims, over the years, different kinds of work have been done. Trenches have been dug. Shafts have been sunk, and samples have proven silver content up to 4,000g/t. But curiously enough not much work has been done during the last years on this side of the mountain.



## REGIONAL GEOLOGY

The Klondike district lies within the unglaciated part of the Northern Cordillera and during the early Tertiary age, underwent strong surface weathering. Bedrock exposure is extremely limited. Since I found no outcrops on the claims I found I had to research to get a better understanding of the geology in this vicinity.

The whole region is characterized by a complex of metamorphic rocks of Precambrian age. This complex of schist and gneisses lies in a northwest - southeast direction. It is intruded by masses of granite rocks from the west. There is also intrusions of ultrabasic rocks.

Above the metamorphic rocks one can find in many places Tertiary volcanic rocks.

So far we know very little of the history of the Yukon metamorphic complex. No doubt a great deal of movement has taken place during geological time, above all, among the rocks of igneous origin. Some anticlinal and synclinal have been determined but as a whole we know very little or nothing of the tectonic history.

The metamorphic complex is bordered on the north and south by two big mountain ranges. To the north, The Ogilvies. The two mountain ranges are a result of big numbers of thrust faults.

In this area, metamorphic rocks are differentiated in two groups, The Nasina and the Klondike group. In the Klondike group it is also possible to find amphibolites. The age of the Klondike schist is most likely to be Precambrian.

The Nasina group has sedimentary origin, while on the other hand the Klondike group has igneous origin.

The vicinity where the claims are situated is characterized by series of sheets being separated by regional thrust faults.

In this vicinity one thrust fault is west trending with a varying degree. Locally, small warpings are noted. There must also be said that small scale steep faults may be common in this area.

The quartz in this area crosscuts the schist layer. The quartz can reach more than 2m. in thickness. Pyrite and other sulphides, such as galena are common. Free gold can also be found in the trace elements.

## GEOLOGY OF THE CLAIMS

As said above, the lack of outcrops and the difficult terrain (underbrush etc.) make it hard to say anything definite about the geology of the claims.

Most of the rocks that I found under the thrust however, seemed to be mica-schist. I also found some quartz. The quartz however seemed to be most abundant to the north of the property.

The schist I found had a green colour and that tells us that it must be of the Klondike group. No gneisses or amphibolites were found.

Looking at the topography, I found it most likely that there is a fault or crack along the left fork of the creek that comes from the mountain ridge. If that is so, it can explain the rich placer ground farther down the creek leading to Gold Bottom. That may be better understood by further geophysical examinations.

Bondar-Clegg & Company Ltd.  
 130 Pemberton Ave.  
 North Vancouver, B.C.  
 V7P 2R5  
 (604) 985-0681 Telex 04-352667



Geochemical  
 Lab Report

REPORT: U88-1163411.1

PROJECT: NANCY GUYAN

PAGE: 1

SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Ag PPM	As PPM	Cu PPM	Mo PPM	Pb PPM	Sb PPM	Zn PPM	Co PPM
S1 YA 89946		<5	28.0	11.9	36	30	1	17	<5	112	25
S1 YA 89947		6	15.0	11.3	37	47	<1	13	<5	87	35
S1 YA 89948		<5	12.0	11.8	31	37	<1	9	<5	144	45
S1 YA 89949		8	28.0	11.5	44	30	<1	18	<5	94	20
S1 YA 89950-1		<5	311.0	11.6	24	30	<1	<5	<5	101	10
S1 YA 89950-2		<5	301.0	<11.5	28	21	1	7	<5	65	15
S1 YA 89950-3		<5	26.0	<11.5	13	18	<1	8	<5	102	5
S1 YA 89951-1		12	111.0	<11.5	20	40	<1	64	<5	189	15
S1 YA 89951-2		<5	311.0	11.7	9	21	<1	64	<5	138	10
S1 YA 89951-1		<5	201.0	11.8	26	27	<1	12	<5	98	20
S1 YA 89952-2		<5	311.0	<11.5	24	67	<1	10	<5	76	10
S1 YA 89953		<5	111.0	11.0	<5	49	<1	27	<5	88	40

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 North Vancouver, B.C.  
 V7P 2R5  
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**Geochemical  
 Lab Report**

REPORT: U88-816841 II ( COMPLETE )

REFERENCE INFO:

CLIENT: BO HAKANSSON  
 PROJECT: NONE GIVEN

OPERATED BY: H. ALGOTTSSON  
 DATE PRINTED: 21-SEP-88

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au 3lg Gold 30 grams	12	5 PPM	ETRE-ASSAY	Fire Assay AA
2	Au/wt. Sample weight/grams	12	0.1 G		
3	Ag Silver	12	0.5 PPM	HNO3-HCl HOT EXTR	PLASMA EMISSION SPEC
4	As Arsenic	12	5 PPM	HNO3-HCl HOT EXTR	PLASMA EMISSION SPEC
5	Cu Copper	12	1 PPM	HNO3-HCl HOT EXTR	PLASMA EMISSION SPEC
6	Mo Molybdenum	12	1 PPM	HNO3-HCl HOT EXTR	PLASMA EMISSION SPEC
7	Pb Lead	12	5 PPM	HNO3-HCl HOT EXTR	PLASMA EMISSION SPEC
8	Sb Antimony	12	5 PPM	HNO3-HCl HOT EXTR	PLASMA EMISSION SPEC
9	Zn Zinc	12	1 PPM	HNO3-HCl HOT EXTR	PLASMA EMISSION SPEC
10	Hg Mercury	12	5 PPM	HNO3-HCl HOT EXTR	Cold Vapour AA

SAMPLE TYPE	NUMBER	STZ	RECTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
SOILS	12	1	-R1	12	DRY, STEW -R1	12

REPORT CONTS TO: BO HAKANSSON

INVOICE TO: BO HAKANSSON

Bondar-Clegg & Company Ltd.  
 130 Pemberton Ave.  
 North Vancouver, B.C.  
 V7P 2R5  
 (604) 985-0681 Telex 04-352667



Geochemical  
 Lab Report

REPORT: V88-1168411.11 ( PARTIAL )

REFERENCE INFO:

CLIENT: BO HAKANSSON  
 PROJECT: NONE GIVEN

SUBMITTED BY: H. ALGOTSSON  
 DATE PRINTED: 14-SEP-88

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au 30g Gold 30 grams	12	5 PPB	FIRE-ASSAY	Fire Assay AA
2	Au/wt Sample weight/grams	12	0.1 G		
3	Hg Mercury	12	5 PPB	HNO3-HCl HOT EXTR	Cold Vapour AA

RESULTS TO FOLLOW FOR: Ag As Cu Mo Pb Sb Zn

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOILS	12	1 -80	12	DRY, SIFVE -80	12

REPORT COPIES TO: BO HAKANSSON

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North Vancouver, B.C.  
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Geochemical  
Lab Report

REPORT: V88-116840.0

PROJECT: NONE GIVEN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPR	Au/wt. G	Hg PPB
S1 YA 89946		<5	28.0	25
S1 YA 89947		6	15.0	35
S1 YA 89948		<5	12.0	45
S1 YA 89949		8	28.0	20
S1 YA 89950-1		<5	30.0	10
S1 YA 89950-2		<5	30.0	15
S1 YA 89950-3		<5	26.0	5
S1 YA 89951-1		12	10.0	15
S1 YA 89951-2		<5	30.0	10
S1 YA 89952-1		<5	20.0	20
S1 YA 89952-2		<5	30.0	10
S1 YA 89953		<5	10.0	40

## ANALYSIS OF THE SAMPLES

The samples were sent down to BONDAR-CLEGG in Whitehorse where these methods were used:

Gold +8 Dacage.

Au. Fire assay with AA finish (atomic absorption)

As, Sb, Cu, Pb, Zn, Mo and Ag. Aqua regia (hydrochloric nitrite acid) digestion with analysis by Plasma

Emission. Hg Cold Vapour AA (atomic absorption).



## MINERALIZATION

Since there are no trenches or outcrops on the claims, it is hard to say anything of the Mineralization there. However it is known that on the neighbouring JAE claims (Mitchell Orekun) there have been found veins with up to 4000g Ag/ton. Au has also been found along with galena and zinc. Lead with a percentage of more than 25.

## CONCLUSION

A. Examination of the supposed fault on the left creek fork can tell us more of the mineralization in that vicinity.

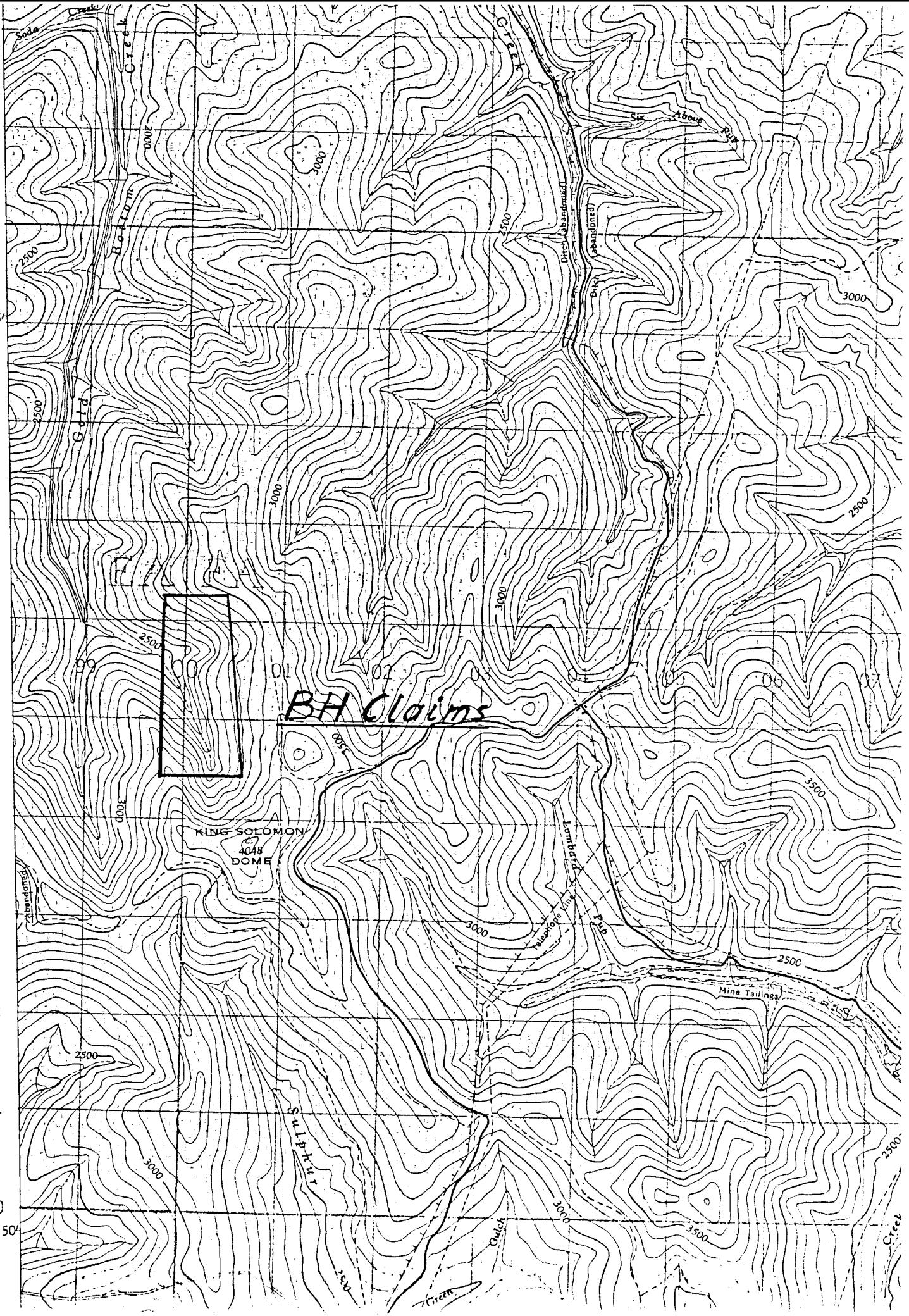
B. It is possible that there are some favorable structures at depth, in areas where today we know nothing about.

C. The known results of the geochemical soil test tell us that further investigation is necessary. There is a road to be built from the placer ground up to the claims. Further geophysical examination of the claims are to be made. Then I'd think of VLF and/or Gravimetry.

D. A topographical map would be of great value for a better understanding of the claims.

E. If possible I will draw a geological map and collect more samples for assay. After these results are known it can be useful to select sites for diamond drilling.

92  
91  
90  
55  
88  
87  
86  
85  
84  
83  
82  
81  
80  
50



*BH Claims*

KING SOLOMON  
4045  
DOME

TRIPLE  
SPLIT

94  
93  
92  
91  
90  
55'  
88  
87  
86  
85  
84  
83  
82  
81



*Inferred fault*

KING SOLOMON  
4048  
DOME

Lombard

Mine Tailings

2500

2500

3000

3000

3000

3000

3000

3000

3000

3000

2500

2500

2500

2500

2500

2500

2500

2500

2500

2500

2500

2500

2500

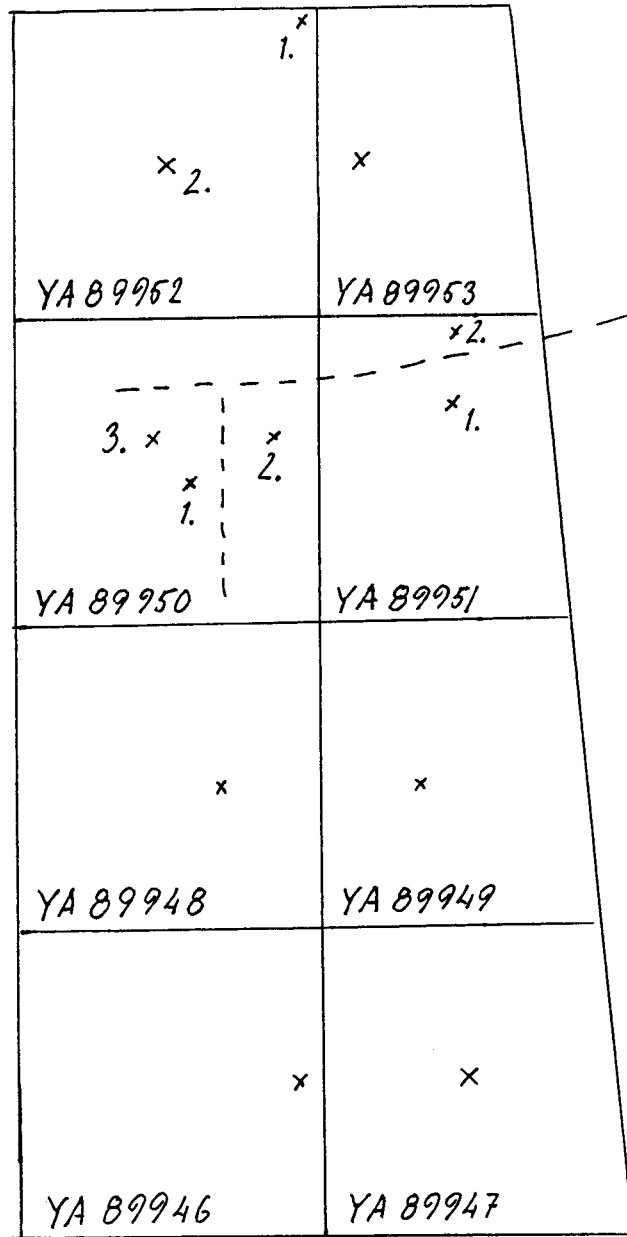
2500

2500

2500

2500

2500



Locations of samples.

TABULATION OF CLAIM DATA

DAWSON MINING DISTRICT

To Accompany Geological Report Dated Sept. 1988

By

Bo Håkansson

<u>CLAIM NUMBER</u>	<u>LOCATER</u>	<u>DATE</u>	<u>DATE REG</u>
YA 89946	Bo Håkansson	28 Aug 87	31 Aug 87
YA 89947	-"-	-"-	-"-
YA 89948	-"-	-"-	-"-
YA 89949	-"-	-"-	-"-
YA 89950	-"-	-"-	-"-
YA 89951	-"-	-"-	-"-
YA 89952	-"-	-"-	-"-
YA 89953	-"-	-"-	-"-

Owner Bo Håkansson

COST OF WORK ON THE CLAIMS

Field work for myself	10 days/\$300.00	=\$3000.00
Field work for H. Algotsson	2 days/\$150.00	=\$ 300.00
Analyses of samples		=\$ 246.00
		<u>\$3546.00</u>

Note: this is a difficult area to prospect due to lack of outcrop. Bob Whittingham can vouch for the author that the work was done.



Invoice : V052044, Page 1

Date : 21-SEP-88

Report No: V88-06840.0

Project : NONE GIVEN

Reference:

30 HAKANSSON  
C/O HANS ALGOTSSON  
P.O. BOX 11  
DAWSON CITY, Y.T. Y0B 1G0

REC'D \$246.00 CDN.  
- THANK YOU -

12 Analyses of "GOLD + 8" GROUP	at \$19.50	\$ 234.00	\$ 234.00
Silver			
Arsenic			
Copper			
Molybdenum			
Lead			
Antimony			
Zinc			
Gold 30 grams			
Mercury			
12 Analyses of Sample weight/grams	at \$ 0.00	\$ 0.00	
Subtotal		\$ 0.00	\$ 0.00
Sample Preparation			
12 Samples of DRY, SIEVE -80	at \$ 1.00	\$ 12.00	
Subtotal		\$ 12.00	\$ 12.00
Invoice Total:			\$ 246.00 Cdn



## REFERENCES

D.I.N.A.

Bostock

D.G. MacIntyre 449 page 10-

J.K. Mortensen 1981 Klondike Ass. Work

STATEMENT OF QUALIFICATIONS

I, Bo K. H. Håkansson, do hereby certify that I graduated from the Royal Institute Of Technology in Stockholm, Sweden as a Mining Engineer, in 1976.

Signed, this 6<sup>th</sup> day of September, 1988, in Dawson City, Yukon Territory.

*Bo Håkansson*