

MAP NO.: ASSESSMENT REPORT X
115 0/9,16 PROSPECTUS X
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092938
MINING DISTRICT: Dawson
TYPE OF WORK: Geochemistry, trenching

REPORT FILED UNDER: Marshall Earth Resources Inc.

DATE PERFORMED: November 1-7, 1990

DATE FILED: March 11, 1991

LOCATION: LAT.: 63°42'N
LONG.: 138°17'W

AREA: Mt. Burnham
VALUE \$: 30,068.95

CLAIM NAME & NO.:	HAM 1-10	YA 84724	-	YA 84733
	HAM 11-34	YA 85053	-	YA 85076
	HAM 35-136	YA 84758	-	YA 85859
	HAM 165-166	YA 84888	-	YA 84889
	HAM 195-305	YA 84918	-	YA 85028
	HAM 308-319	YA 85029	-	YA 85040
	HAM 320-331	YA 85077	-	YA 85088

WORK DONE BY: R.A. Doherty (Aurum Geological Consultants Inc.)

WORK DONE FOR: Marshall Earth Resources Inc.

DATE TO GOOD STANDING:

REMARKS: MINFILE #1150-125 MELBA
Exploration in 1990 consisted of five hand trenches at four sites. A total of 88 rock samples were collected and analyzed for gold+28 elements. Bedrock in trenches consisted of granitic orthogneiss and schistose quartz-feldspar metasediments. No mineralization was encountered however one sample assayed 39 ppb gold.

*Summarized April 23/91
indexed April 23/91*



**TRENCHING & GEOCHEMICAL
SAMPLING
ASSESSMENT REPORT
on the
092938 HAM CLAIMS**

**Dawson Mining District
November 1-6, 1990**

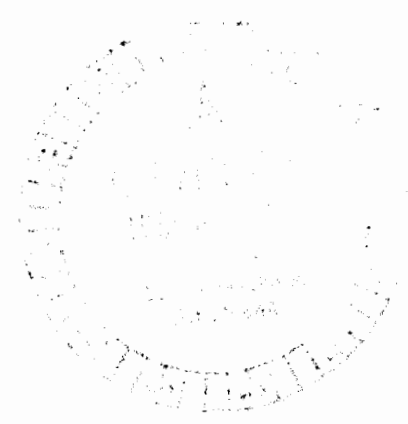
Claims: HAM 1-10 (YA84724-84733)
HAM 11-34 (YA85053-85076)
HAM 35-136 (YA84758-84859)
HAM 165-166 (YA84888-84889)
HAM 195-305 (YA84918-85028)
HAM 308-319 (YA85029-85040)
HAM 320-331 (YA85077-85088)

Location: 1. 72 km SE of Dawson, Yukon
2. NTS 115-O/9,16
3. Latitude 63°42'
Longitude 138°17'

For: Mr. Hugh Roy Marshall
MARSHALL EARTH RESOURCES, INC.
P.O. Box 888
Virginia City, Nevada
89440

By: R. Allan Doherty, B.Sc.,
Aurum Geological Consultants Inc.
P.O. Box 4367
Whitehorse, Yukon
Y1A 3T5

February 27, 1991



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 \$ 30,068.75.

W. LeBange

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

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INTRODUCTION

This report was prepared at the request of Mr. Hugh Roy Marshall of Marshall Earth Resources, Inc. It describes a six day trenching program on the Ham Claims located within the Dawson Mining District. The claim block consists of 273 contiguous two post quartz claims.

The purpose of the work program was to fulfill assessment requirements and to determine the geochemical background for selected elements within the lithologies underlying the claim area.

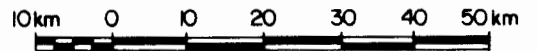
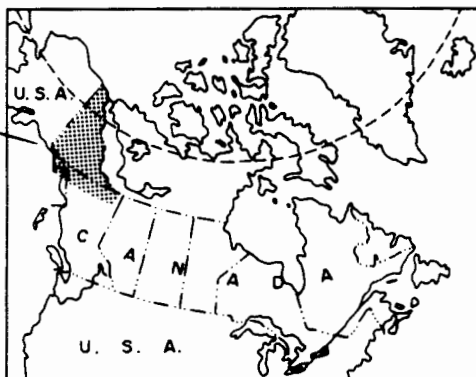
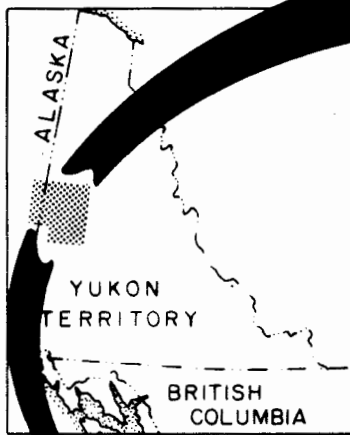
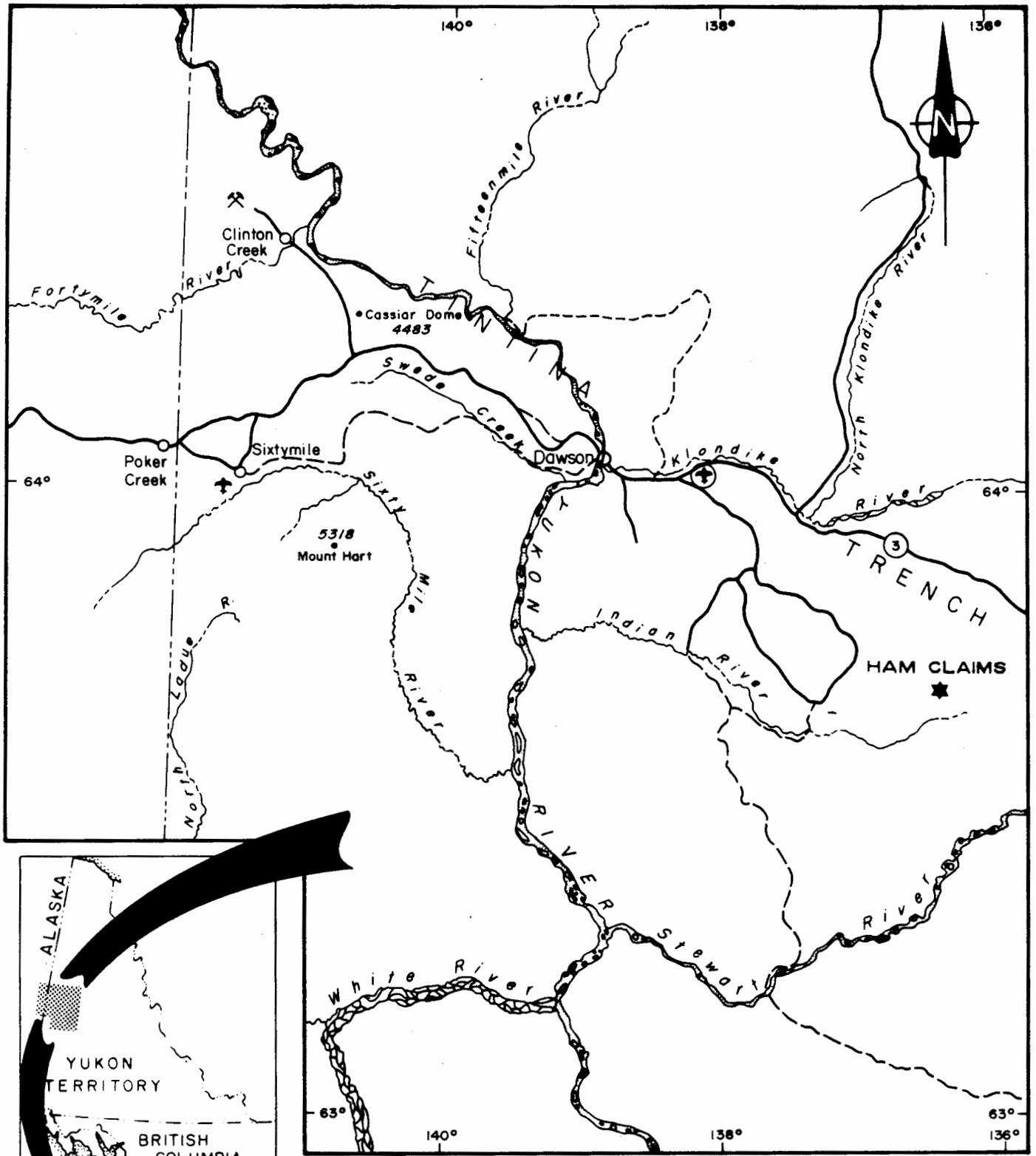
Four sites were trenched by a four man crew, using explosives and hand mucking. The purpose was to expose bedrock and collect rock samples for geochemical analyses.

The work program was completed between November 1-7th, 1990. Trenching was sub-contracted to M.J. Moreau Enterprises Ltd, and the sampling was carried out by Dan Oppen C.E.T. and supervised by R. Allan Doherty both of Aurum Geological Consultants Inc.

LOCATION AND ACCESS

The Ham Property is located on Mt. Burnham, approximately 72 km southeast of Dawson City, Yukon, Figure 1. Access to the claims is by helicopter from Dawson. The nearest road is the Hunker-Dominion loop road, 15 km to the west of the claims. Mt. Burnham which is at the centre of the claim block is at 63° 42' North latitude and 138° 17' West Longitude, within NTS map area 115 O/9.

Road access could be constructed to the claims but would require caution in routing through the low swampy ground on the east side of Dominion Creek. A few old overgrown placer trails lead up Burnham Creek to within eight kilometers of Mt. Burnham and also up Rob Roy Creek to approximately seven kilometers from the summit of Mount Burnham. Generally the area to be traversed by new trail construction is fairly rugged terrain, and permafrost could be present on steeper slopes.



MARSHALL EARTH RESOURCES INC.			
HAM CLAIMS			
DAWSON MINING DISTRICT			
LOCATION			
Aurum Geological Consultants Inc.			NOV. 1990
DRAWN BY	SCALE: 1:1,000,000	FIGURE : 1	
NH			

CLIMATE TOPOGRAPHY AND VEGETATION

The Klondike area lies within the Yukon Plateau physiographic region. The climate is characterized by long severe winters and short hot summers.

This area of the Yukon has not been glaciated and long ridges with steep sides and narrow "V" shaped valleys are common. Tors or castellated rock outcrops are common on the higher ridges.

Vegetation consists of stunted black spruce and poplar in the valleys and on mountain slopes, giving way to willow and alder at higher elevations.

PROPERTY

The HAM claims consist of 273 contiguous quartz claims staked in accordance with the Yukon Quartz Mining Act. The claims are 100% owned by Marshall Earth Resources Inc. of Virginia City, Nevada. The Claims are shown on Claim maps 115 O/9 and 115 O/16, which is reproduced in Figure 2. Essential claim data are as follows:

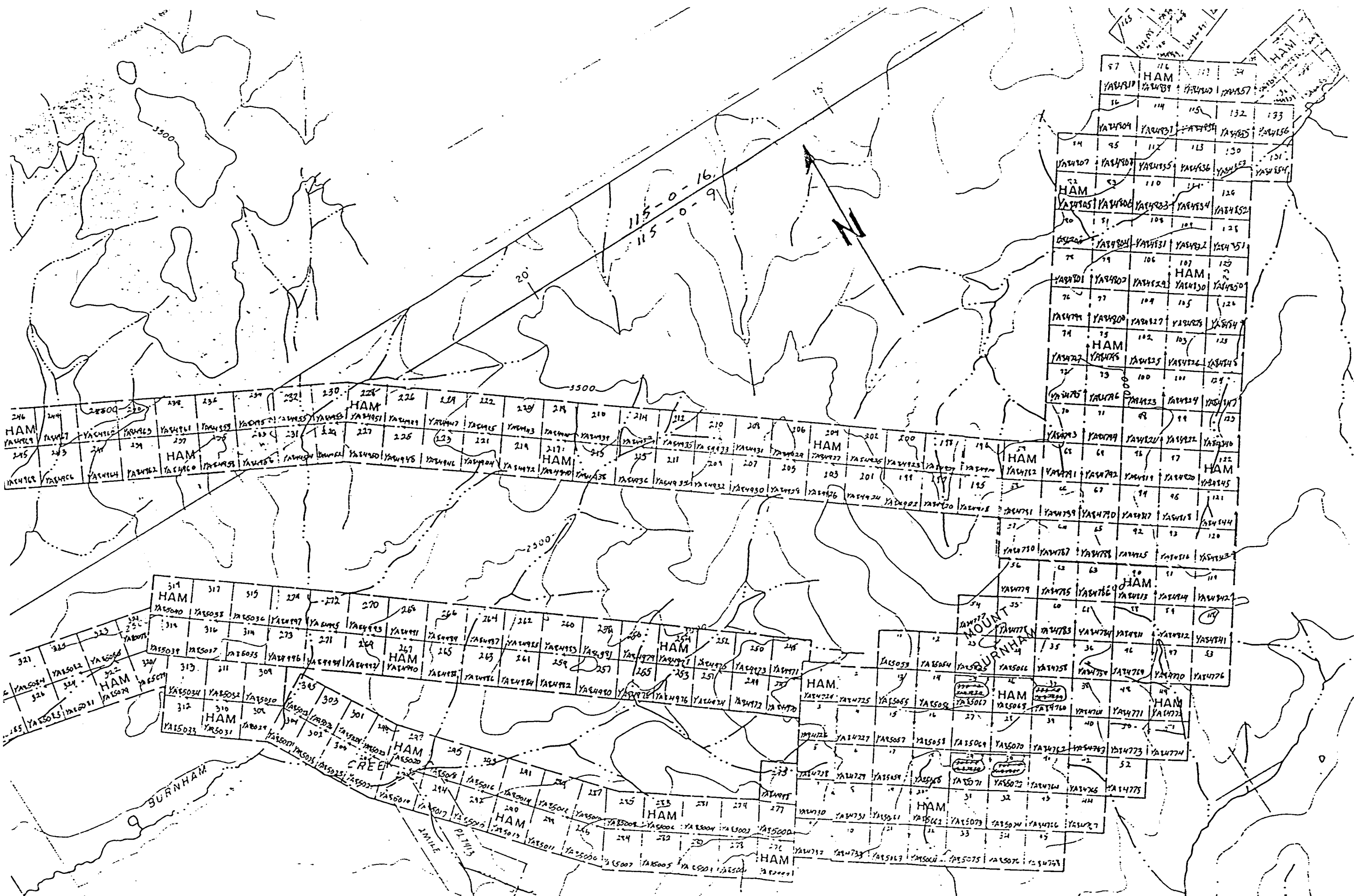
TABLE 1

CLAIM NAME	GRANT NUMBER	RECORDING DATE	EXPIRY * DATE
HAM 1-10	YA84724-4733	NOV 06/84	NOV 06/91
HAM 11-22	YA85053-5064	NOV 15/84	NOV 15/91
HAM 23-25	YA85065-5067	NOV 15/84	NOV 15/92
HAM 26-34	YA85068-5076	NOV 06/84	NOV 06/91
HAM 35-68	YA84758-5791	NOV 06/84	NOV 06/91
HAM 69-72	YA84792-4795	NOV 06/84	NOV 06/92
HAM 73-136	YA84796-4859	NOV 06/84	NOV 06/91
HAM 165-166	YA84888-4889	NOV 06/84	NOV 06/91
HAM 195-220	YA84918-4943	NOV 06/84	NOV 06/91
HAM 221-223	YA84944-4946	NOV 06/84	NOV 06/91
HAM 224-305	YA84947-5028	NOV 06/84	NOV 06/92
HAM 308-316	YA85029-5037	NOV 06/84	NOV 06/91
HAM 317-319	YA85038-5040	NOV 06/84	NOV 06/92
HAM 320-331	YA85077-5088	NOV 15/84	NOV 15/91

* Pending approval of 1990 assessment work

Figure 2

HAM CLAIMS
NTS 115-O/9,16
Scale 1:31680



HISTORY

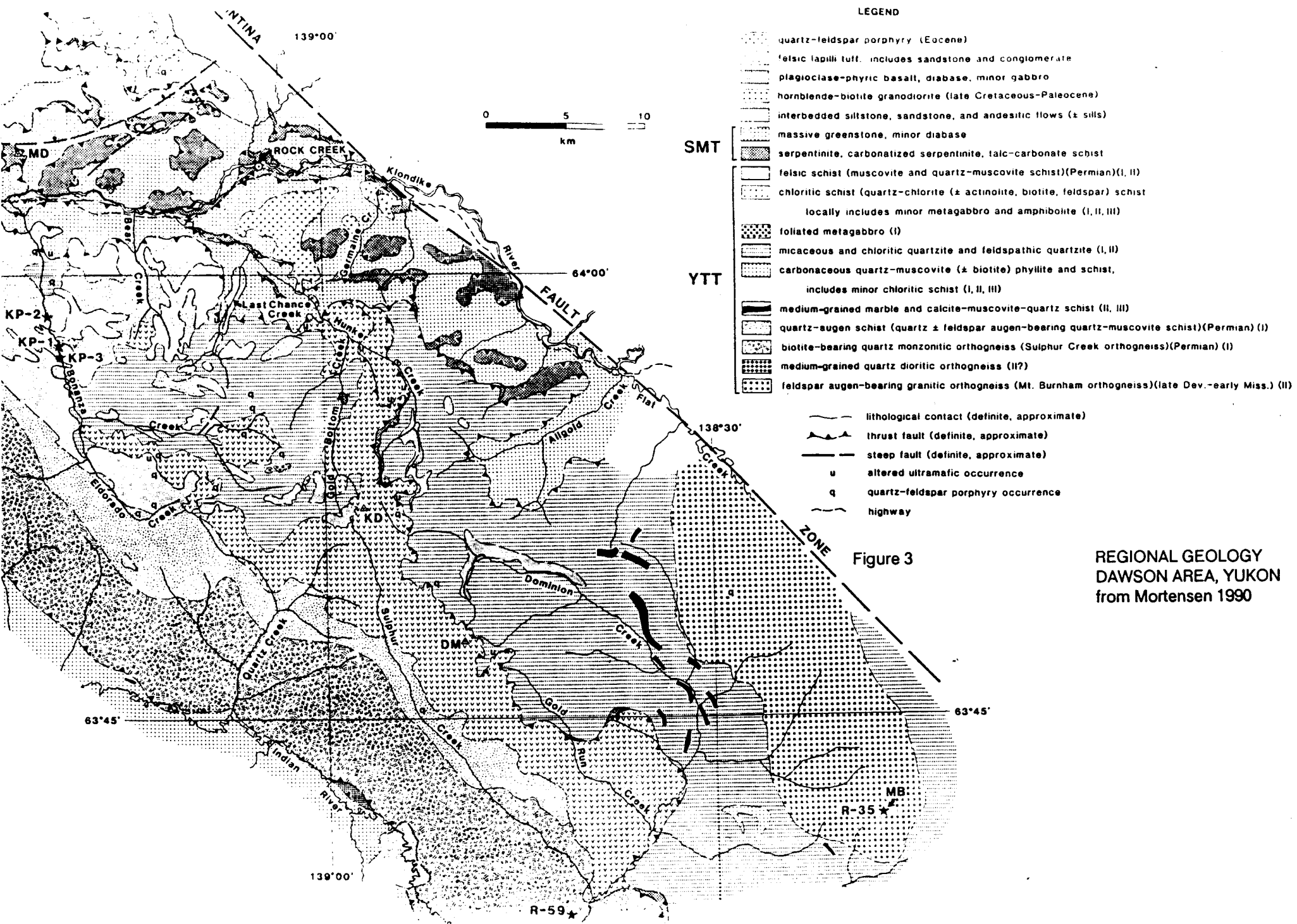
The HAM claims were staked in November 1984 by Underhill & Underhill Engineering Ltd., for Marshall Earth Resources, Inc. Initial work on the property consisted of claim surveys to cover the required assessment costs. Color air photos at 1:20,000 scale were flown over the property in 1986. In 1987, two small grids were cut and a magnetometer survey was completed. The object of the magnetometer survey was to define the intrusive - metasedimentary contact (Espell & Doherty, 1987).

REGIONAL GEOLOGY

The regional geology is summarized from Mortensen 1990, (See Figure 3.). This area of the Yukon, including the Klondike goldfields, is part of the Yukon Tanana Terrane, which consists of polydeformed metamorphic rocks that include granitic orthogneiss, mafic and felsic metavolcanic rocks, marble, and clastic metasediments. Slide mountain terrane mafic and ultramafic igneous rocks include serpentinite and altered carbonatized serpentine, and massive greenstone. The Slide mountain terrane is interpreted as oceanic marginal basin volcanics and sediments, and in this area of the Yukon occur primarily as klippen overlying the older Yukon Tanana terrane

The youngest rocks in the area are Mesozoic and Tertiary intrusive rocks and immature clastic sediments.

Age dates on zircon from the Mt. Burnham orthogneiss indicate an age of 363.8 Ma (Late Devonian - Early Mississippian), Mortensen 1990. The Mt. Burnham orthogneiss underlies most of the HAM Claims.



LEGEND

- quartz-feldspar porphyry (Eocene)
- felsic lapilli tuff, includes sandstone and conglomerate
- plagioclase-phyric basalt, diabase, minor gabbro
- hornblende-biotite granodiorite (late Cretaceous-Paleocene)
- interbedded siltstone, sandstone, and andesitic flows (\pm sills)
- massive greenstone, minor diabase
- serpentinite, carbonatized serpentinite, talc-carbonate schist
- felsic schist (muscovite and quartz-muscovite schist)(Permian)(I, II)
- chloritic schist (quartz-chlorite (\pm actinolite, biotite, feldspar) schist
locally includes minor metagabbro and amphibolite (I, II, III))
- foliated metagabbro (I)
- micaceous and chloritic quartzite and feldspathic quartzite (I, II)
- carbonaceous quartz-muscovite (\pm biotite) phyllite and schist,
includes minor chloritic schist (I, II, III)
- medium-grained marble and calcite-muscovite-quartz schist (II, III)
- quartz-augen schist (quartz \pm feldspar augen-bearing quartz-muscovite schist)(Permian) (I)
- biotite-bearing quartz monzonitic orthogneiss (Sulphur Creek orthogneiss)(Permian) (I)
- medium-grained quartz dioritic orthogneiss (II?)
- feldspar augen-bearing granitic orthogneiss (Mt. Burnham orthogneiss)(late Dev.-early Miss.) (II)
- lithological contact (definite, approximate)
- thrust fault (definite, approximate)
- steep fault (definite, approximate)
- u altered ultramafic occurrence
- q quartz-feldspar porphyry occurrence
- highway

Figure 3

REGIONAL GEOLOGY
DAWSON AREA, YUKON
from Mortensen 1990

PROPERTY GEOLOGY

Outcrops on the HAM claims are confined to ridge tops and probably represent less than 1% of the area. The outcrops mapped to date are of granitic orthogneiss composed of euhedral to strongly flattened K-feldspar augen in medium to coarse grained crystalline biotite, muscovite, quartz, and feldspar. Tourmaline was noted in a few outcrops on Mt. Burnham. Trenches completed during the 1990 work program uncovered the same orthogneiss and a much finer grained quartz-biotite-muscovite-feldspar schist with minor garnet porphyroblasts. This unit may be either a fine grained border phase of the Mt. Burnham orthogneiss or surrounding quartzite and felspathic quartzites intruded by the orthogneiss.

TRENCHING PROGRAM

Introduction

Five trenches were excavated on four separate claims within the Ham claim block. All trenches intersected bedrock and were sampled at one half meter intervals. A total of 88 rock samples were collected and submitted for gold plus 28 element ICP analyses, (see Appendix A for analytical methods). Trench plan maps showing sample locations are presented in Figures 4, 5, 6 & 7. Complete geochemical results are tabulated in Appendix B. Sample descriptions are found in Appendix C.

The location and size of each trench are as follows:

TABLE 2.

Site #	Claim #	Trench #	m ³ excavated	No of Samples
1	HAM 71	1	5.0 m ³	18
1	HAM 71	2	6.0 m ³	16
2	HAM 23	1	7.0 m ³	21
3	HAM 223	1	8.0 m ³	20
4	HAM 317	1	5.5 m ³	13

Geochemical Statistics

Statistical calculations were completed for gold, lead, zinc, silver, and arsenic for the rock samples collected from the Ham claims. Background is considered to be the median of the sample population, whereas an anomaly is set at the mean plus two standard deviations. The results from the sample population of 88 are listed below.

TABLE III

ROCK SAMPLE STATISTICS

	Au(ppm)	Pb(ppm)	Zn(ppm)	Ag(ppm)	As(ppm)
n = 88					
BACKGROUND	10	13	55	0.5	11
ANOMALOUS	16	25	188	0.9	27
NUMBER					
ANOMALOUS	1	4	4	7	4

In addition to the list above, two samples were anomalous in copper (>20 ppm), six samples were anomalous for antimony (>5 ppm), and three samples anomalous in barium (>373 ppm). Anomalous results are plotted on the trench maps shown in Figures 4 to 7.

The first four samples (83801-83804) are anomalous in lead, zinc and arsenic and the possibility of contamination by a previous laboratory sample batch should not be disregarded.

Trench sampling results are discussed in the following sections.

SITE 1: HAM 71 Claim - Trench 1 & 2 (Figure 4)

Two trenches were located on the Ham 71 claim, approximately 2.7 km northeast of Mt. Burnham. The trenches are over the magnetometer survey area of

Grid # 1 completed in 1987. A number of magnetic highs on this grid were interpreted to be the contact between the granitic orthogneiss and metasediments.

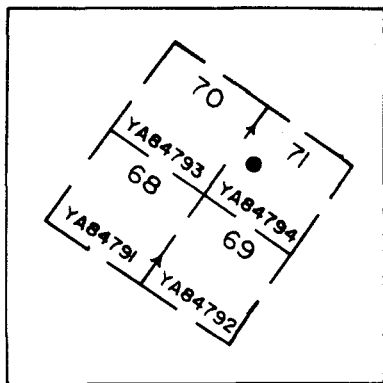
Bedrock intersected in Trenches 1 & 2 on the HAM 71 claim is most likely a metasediment. The rock is fine grained quartz-biotite-muscovite schist and appears to lack the coarse augen texture common in the granitic orthogneiss.

Samples collected in Trench 1 were anomalous in lead, zinc, silver, arsenic, antimony, barium, and copper. Sample No. 83801 returned 129 ppm lead, 1753 ppm zinc, 1.3 ppm silver, 252 ppm arsenic, and 12 ppm antimony. Samples 83802 to 83804 were also anomalous in zinc and arsenic ranging between 225-427 ppm zinc and 40-54 ppm arsenic. Samples 83803 and 83805 returned 627 ppm and 501 ppm barium respectively. Elevated barium could be related to barium in K-Feldspars. All anomalous samples were from the northeast end of trench 1, which contains a thin quartz vein. A chip sample adjacent to the vein returned high iron and 428 ppm barium.

Trench 2 on Ham 71 claim returned anomalous lead (35 ppm) and manganese (506 ppm) from sample 83822. Samples 83821 and 83823 returned slightly anomalous antimony values (6 ppm and 7ppm).

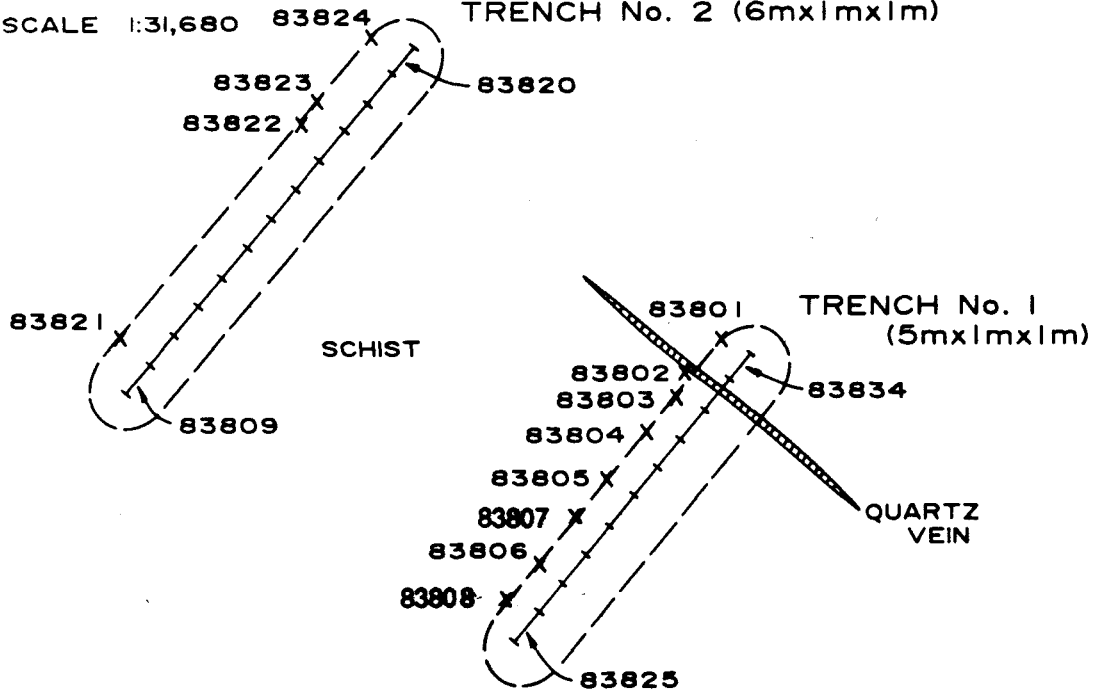
SITE 2: HAM 23 Claim - Trench 1 (Figure 5)

Trench 1 on the Ham 23 claim is located approximately 250 meters southwest of the peak of Mt. Burnham. The trench exposed granitic orthogneiss, and with the exception of sample 83837 which returned 0.9 ppm silver, and 83853 which returned 39 ppb gold, all other samples returned background levels.



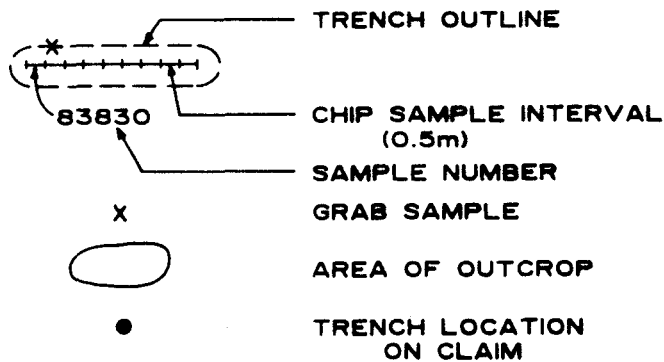
CLAIM LOCATION

SCALE 1:31,680 TRENCH No. 2 (6mx1mx1m)

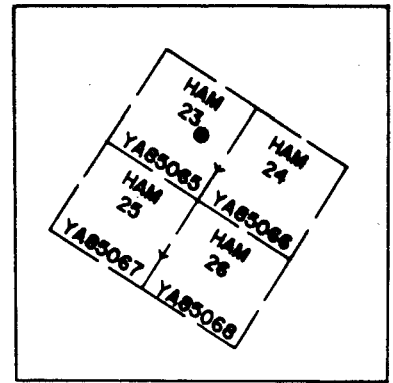


Sample Number	ANOMALOUS SAMPLES					
	AU ppb	AG ppm	PB ppm	ZN ppm	AS ppm	BA ppm
83801	15	1.3	120	1753	202	-
83802	-	-	45	427	54	-
83803	-	-	-	300	42	627
83804	-	-	28	225	40	-
83805	-	-	-	-	-	501
83822	-	-	35	-	-	-
83834	-	-	-	-	-	428

LEGEND



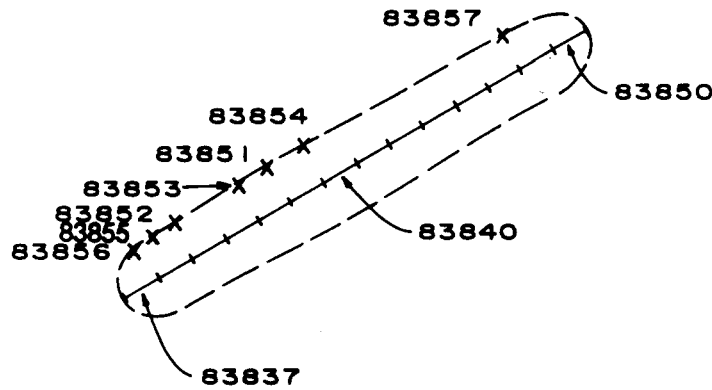
MARSHALL EARTH RESOURCES INC.	
HAM CLAIMS DAWSON MINING DISTRICT	
SITE 1 CLAIM 71 TRENCH 1 & 2	
Aurum Geological Consultants Inc.	NOV. 1990
Scale 1:100	Drawn by: DO/LK
FIGURE: 4	



CLAIM LOCATION

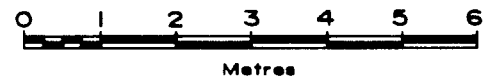
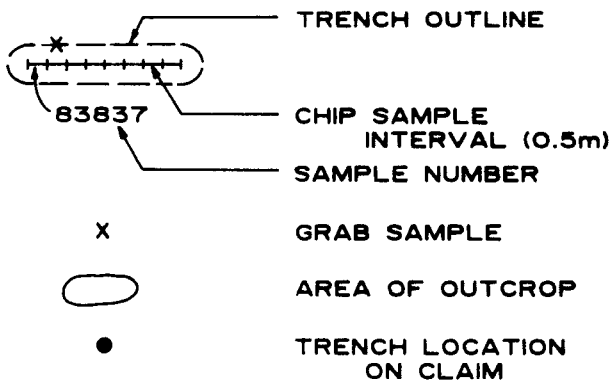
SCALE 1:31,680

TRENCH No. 1
(7m x 1m x 1m)



Sample Number	AU ppb	ANOMALOUS SAMPLES				
		AG ppm	PB ppm	ZN ppm	AS ppm	BA ppm
83853	30	-	-	-	-	-
83858	-	0.9	-	-	-	-

LEGEND



MARSHALL EARTH RESOURCES INC.	
HAM CLAIMS DAWSON MINING DISTRICT	
SITE 2 CLAIM 23 TRENCH 1	
Aurum Geological Consultants Inc.	NOV. 1990
NTS: 1:50/9	Scale 1:100
Drawn by: DO LK	FIGURE: 5

SITE 3: HAM 223 Claim - Trench 1 (Figure 6)

Trench 1 on the Ham 223 claim is located 7 km west northwest of Mt. Burnham. This trench exposed schist with pegmatite and returned only background values for the elements analysed.

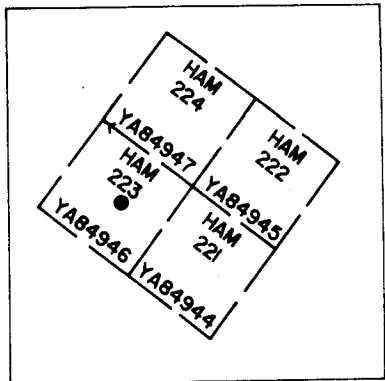
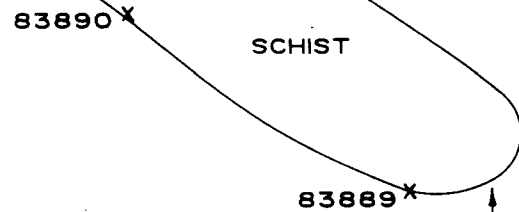
SITE 4: HAM 317 Claim - Trench 1 (Figure 7)

The trench on Ham 317 is located 9 km northwest of Mt. Burnham. This trench exposed well foliated schist. One sample, 83858 returned 1.1 ppm silver.

CONCLUSIONS

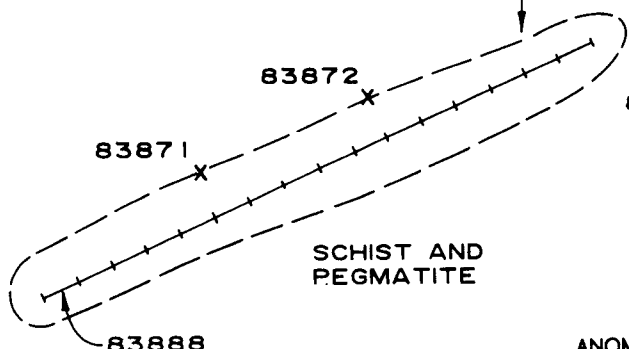
The 1990 trenching program on the HAM claims consisted of five hand trenches at four sites on the claim block. A total of 31.5 m³ of overburden and rock were excavated and 88 rock samples were collected and analyzed for gold and a 28 element ICP package. The trenches uncovered granitic orthogneiss and schistose quartz and feldspar rich meta-sediments. No mineralization was located, however, a number of samples collected from Trench 1 on the Ham 71 claim were anomalous in lead, zinc, arsenic and copper. One sample (83853) in Trench 1 on the Ham 23 claim contained 39 ppb gold.

Results from the sampling program were statistically analyzed to develop background and anomalous levels for gold, lead, zinc, silver, and arsenic from rocks underlying the HAM claims.



CLAIM LOCATION
SCALE 1:31,680

25m at 000°

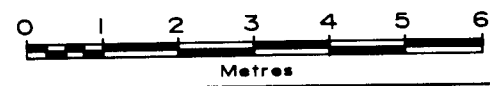


TRENCH No. 1
(8mx1mx1m)

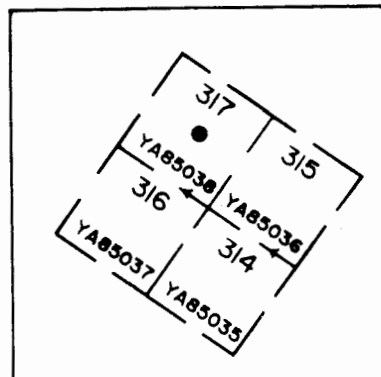
Sample Number	AU ppb	ANOMALOUS SAMPLES				
		AG ppm	PB ppm	ZN ppm	AS ppm	BA ppm
83871	-	0.9	-	-	-	-
83889	-	0.9	-	-	-	-
83890	-	0.9	-	-	-	-

LEGEND

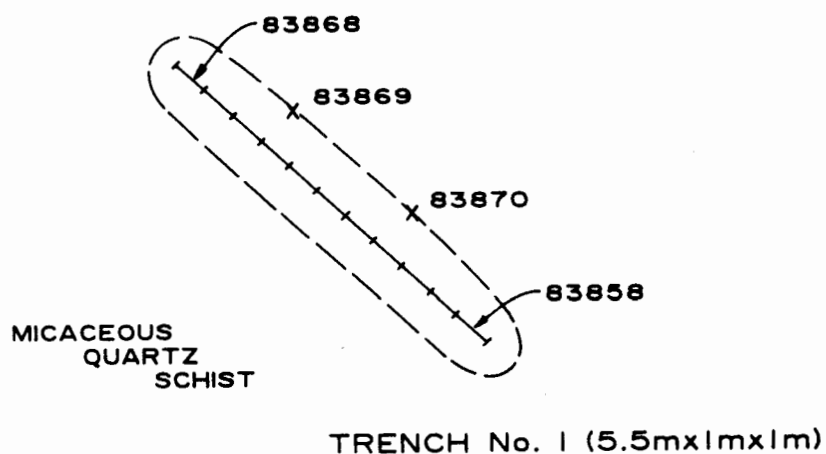
- TRENCH OUTLINE
- CHIP SAMPLE INTERVAL (0.5m)
- SAMPLE NUMBER
- GRAB SAMPLE
- AREA OF OUTCROP
- TRENCH LOCATION ON CLAIM



MARSHALL EARTH RESOURCES INC.	
HAM CLAIMS DAWSON MINING DISTRICT	
SITE 3 CLAIM 223 TRENCH 1	
Aurum Geological Consultants Inc.	NOV. 1990
NTS: 1:50/9	Scale 1:100
Drawn by: LK	FIGURE: 6

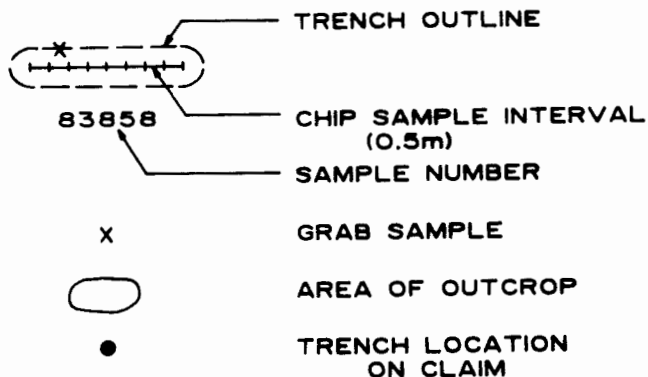


CLAIM LOCATION
SCALE 1:31,680



Sample Number	AU ppb	ANOMALOUS SAMPLES				AS ppm	BA ppm
		AG ppm	PB ppm	ZN ppm			
83858	-	1.1	-	-	-	-	
83859	-	0.9	-	-	-	-	

LEGEND



MARSHALL EARTH RESOURCES INC.	
HAM CLAIMS DAWSON MINING DISTRICT	
SITE 4 CLAIM 317 TRENCH 1	
Aurum Geological Consultants Inc.	NOV. 1990
NTS: 1150/9	Scale 1:100
Drawn by: ^{DD} LK	FIGURE: 7

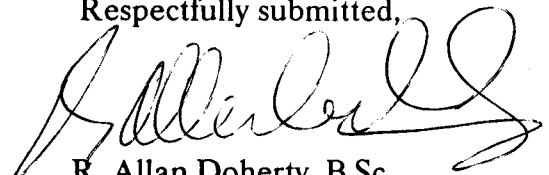
RECOMMENDATIONS

It is recommended that a soil sampling program be completed on the claims southeast of Mt. Burnham, in general area of the trench site on the HAM 71 claim and extending out from that area. Sampling should be done by hand augers to obtain the best possible sample from the base of the "B" soil horizon. Samples should be collected on a chain and compass grid at 100 m centres.

A program of stream silt and heavy mineral concentrate sampling should be completed on all creeks draining the property. This should be completed before the grid soil sampling to allow follow up on anomalous results. If results from this sampling program are positive then a follow up program of trenching and sampling should be completed.

The estimated cost to complete this program exclusive of the costs for follow-up trenching is \$40,000.00.

Respectfully submitted,



R. Allan Doherty, B.Sc.,
Aurum Geological Consultants Inc.,

February 27, 1991

REFERENCES

- Espell, R., and Doherty, R. A. 1987: Geological mapping & Geophysical Survey on the Ham Claims, Dawson Mining District; Confidential assessment report
- Mortensen, J. K., 1990: Geology and U-Pb geochronology of the Klondike District, west-central Yukon Territory; Can. Journal of Earth Sciences Vol 27, pp 903-914

STATEMENT OF COSTS

Assessment credits to be applied to HAM 1-331 Claims: 1990 Field Work

A. Fieldwork; November 1-7, 1990

R. A. Doherty, B.Sc., 2 days @ \$350/day	\$700.00
D. Oppeer, C.E.T. 10.5 days @ \$300/day	\$3,150.00
M. J. Moreau, Blaster 6.0 days @ \$450	\$2,700.00
J. Lennie, Blasters helper 6 days @ \$300/day	\$1,200.00
M. Smarth, Blasters helper 6 days @ \$300/day	\$1,200.00

Subtotal \$8,950.00

B. Support Costs

Helicopter Charter (Trans North)	\$9,453.00
Analytical Costs	\$1,531.75
Meals & Accommodation	\$2,127.85
Truck rental and gasoline	\$1,641.48
Blating Supplies & Magazine	\$2,112.14
Loader rental	\$120.00
Accounting Charge	\$2,282.73

Subtotal \$19,268.95

C. Data Compilation and Report Preparation

R. A. Doherty, B.Sc., 4.0 days @ \$350/day	\$1,400.00
L. Keefe, draftsman, 8 hrs @ \$25	\$ 400.00
Reprographics	\$ 50.00

Subtotal \$1,850.00

Total 1990 Assessment work valuation: \$30,068.95

STATEMENT OF QUALIFICATIONS

I, R. Allan Doherty with business address:

Aurum Geological Consultants Inc.
P.O. Box 4367
Whitehorse, Yukon
Y1A 3T5

do hereby certify that:

1. I am a practicing geologist.
2. I am a graduate of the University of New Brunswick, with a degree in geology (Hons. B.Sc., 1977) and that I attended graduate school at Memorial University of Newfoundland, 1978-81. I have been involved in geological mapping and mineral exploration continuously since then.
3. I am a member of the Yukon Association of Professional Geoscientists and the CIMM.
4. I supervised the work program and the preparation of this report on the HAM Property, which is based on data collected during property work conducted during November 1 to November 7, 1990.
5. I have no direct or indirect interests in the properties of Marshall Earth Resources, Inc.
6. I consent to the use of this report in a company report or statement, provided that no portion is used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.

February 27, 1991

R. Allan Doherty, B.Sc.



APPENDIX A

Analytical methods

SAMPLE PREPARATION

Soils

Incoming soils are sorted, counted and logged. The soils are placed in an oven devoted to geochem and dried at 150 F.

When soils are dry, they are sieved through an 80 mesh screen. If 20g of -80 # soil is not obtained, the +80 # is then sieved through a 40 # sieve and placed in a separate bag. The reject is stored in its original bag.

Rocks

Incoming rocks are sorted, counted and logged. Rocks are first crushed through a jaw crusher set at 3/8" gap and then crushed through a 1/8" gap.

The crushed sample is split using a Jones Riffle until a 250g sample is obtained. The reject is placed in its original bag and stored.

The sample is then dried at 150 F and pulverized to -150 # using a ring pulverizer.

ATOMIC ABSORPTION ANALYSIS

Geochem Digestion [Trace Level Analysis]

0.500g of sample is weighed into a 16 x 150 mm test tube. 2 mls of 1:1 Nitric Acid is added and the test tube is placed in a hot water bath for 20 minutes. 3 ml of HCl is added and the sample is heated for 40 minutes. When digestion is completed, the sample is cooled in a cold water bath. The test tube is then bulked to 10 mls using a reference, stirred and allowed to settle. The sample is now ready to run on the A.A.

For ICP the sample is digested in one step using 5 mls of 3 parts HCl, 1 Part Nitric Acid and 2 parts water.

Assay Digestion [Ore Level Analysis]

1.000g of sample is weighed into a class A 100 ml volumetric flask. 5 mls of Nitric Acid is added and the flask is placed on a 400 F hot plate until the red fumes indicating reaction subside. 20 mls of water* and 10 mls of HCL are added and placed on the hot plate for 5 minutes. The flask is then bulked to the neck with water and brought to a boil. The flask is then cooled, bulked to the mark, shaken and allowed to settle prior to running on the A.A.

* Some elements require special treatment. For example, Cu requires 20 mls 10% Tartaric acid.

TRACE LEVEL GOLD FIRE ASSAY

15g of sample is mixed with a suitable flux in a 30g crucible, inquarted with 2 mg Ag and fused at 1900 F. The contents of the crucible is poured into a mold and allowed to cool. The slag is broken off and discarded. The lead button is then pounded into a cube.

The lead button is placed into a bone ash cupel which has been preheated to 1800 F. When the lead is completely molten, the temperature is dropped to 1750 F. The dampers are opened to allow air inside the furnace. When cupelation is complete, the cupel is taken out and allowed to cool.

The silver-gold prill is picked out of the cupel and dropped into a 16 x 150 mm test tube. 2 mls of 1:1 Nitric Acid is added and the test tube is heated to dissolve the silver. 3 mls of HCl is then added to dissolve the gold. The test tube is made up to 10 mls using a reference, mixed and run on the A.A.

APPENDIX B

Geochemical Results

November 22, 1990

Work Order # 13014

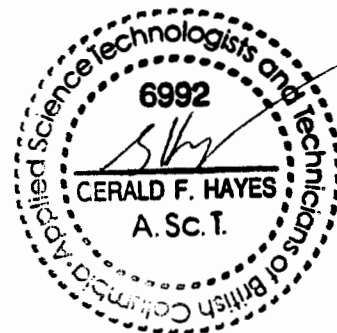
Aurum Geological Consultants Inc.
P.O. Box 5179
Whitehorse, Yukon
Y1A 4S3

File # 13014b
Project # 87

Assay Certificate for Samples Provided

Sample	ppb Au
83831	<10
83832	<10
83833	<10
83834	<10
83837	<10
83838	<10
83839	<10
83840	<10
83841	<10
83842	<10
83843	<10
83844	<10
83845	<10
83846	<10
83847	<10
83848	<10
83849	<10
83850	<10
83851	<10
83852	<10
83853	39
83854	<10
83855	<10
83856	<10
83857	<10
83858	<10
83859	<10
83860	<10
83861	<10
83862	<10

Au -- 15g Fire Assay/AAS



November 22, 1990

Work Order # 13014

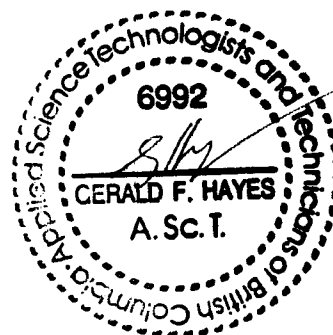
Aurum Geological Consultants Inc.
P.O. Box 5179
Whitehorse, Yukon
Y1A 4S3

File # 13014c
Project # 87

Assay Certificate for Samples Provided

Sample	ppb Au
83863	<10
83864	<10
83865	<10
83866	<10
83867	<10
83868	<10
83869	<10
83870	<10
83871	<10
83872	<10
83873	<10
83874	<10
83875	<10
83876	<10
83877	<10
83878	<10
83879	<10
83880	<10
83881	<10
83882	<10
83883	<10
83884	<10
83885	<10
83886	<10
83887	<10
83888	<10
83889	<10
83890	<10

Au -- 15g Fire Assay/AAS



November 22, 1990

Work Order # 13014

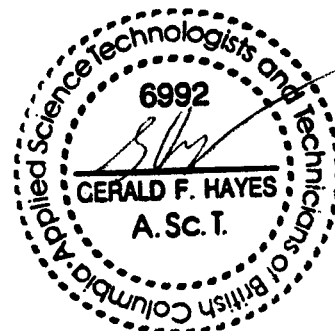
Aurum Geological Consultants Inc.
P.O. Box 5179
Whitehorse, Yukon
Y1A 4S3

File # 13014a
Project # 87

Assay Certificate for Samples Provided

Sample	ppb Au
83801	15
83802	<10
83803	<10
83804	<10
83805	<10
83806	<10
83807	<10
83808	<10
83809	<10
83810	<10
83811	<10
83812	<10
83813	<10
83814	<10
83815	<10
83816	<10
83817	<10
83818	<10
83819	<10
83820	<10
83821	<10
83822	<10
83823	<10
83824	<10
83825	<10
83826	<10
83827	<10
83828	<10
83829	<10
83830	<10

Au -- 15g Fire Assay/AAS



CAVENDISH ANALYTICAL LABORATORY LTD.

2225 S. Springer Ave., Burnaby,
British Columbia, Can. V5B 3H1
Ph:(604)299-2560 Fax:299-6252

CERTIFICATE OF ANALYSIS

TO : NORTHERN ANALYTICAL LAB
105 COPPER RD.
WHITEHORSE YUKON
PROJECT : WD#13014
TYPE OF ANALYSIS : ICP

CERTIFICATE # : 901119B
INVOICE # : NAL1119B
DATE ENTERED : NOV 18, 1990
FILE NAME : P1117B
PAGE # : 1

PRE FIX	SAMPLE NAME	PPM MO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CO	PPM Mn	% FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	% CA	% P	PPM LA	PPM CR	% MG	PPM BA	% TI	PPM B	% AL	% NA	% SI	PPM W	PPM BE
	83801	12	37	129	1753	1.3	8	2	46	0.86	252	N/A	ND	11	2	8	12	2	6	0.13	0.06	1	115	0.14	25	0.02	83	0.23	0.01	0.01	1	1
	83802	3	33	45	427	0.2	31	14	277	4.04	54	N/A	ND	ND	4	1	2	2	52	0.07	0.03	10	97	1.09	287	0.21	16	2.26	0.02	0.02	1	1
	83803	3	29	15	398	0.1	34	19	513	5.03	42	N/A	ND	ND	7	1	2	2	73	0.16	0.05	29	105	1.52	527	0.29	10	3.11	0.03	0.02	1	2
	83804	5	25	28	225	0.7	18	8	153	1.73	40	N/A	ND	ND	71	1	4	2	28	0.84	0.06	38	31	0.56	102	0.09	7	2.21	0.04	0.02	1	2
	83805	1	23	3	172	0.1	29	17	348	5.12	9	N/A	ND	ND	5	1	2	2	67	0.08	0.03	14	51	1.37	501	0.31	5	3.04	0.03	0.02	1	1
	83806	2	26	1	63	0.1	34	15	212	4.12	8	N/A	ND	ND	5	1	2	2	42	0.09	0.06	19	28	1.10	301	0.24	5	2.50	0.02	0.01	1	1
	83807	1	46	10	92	0.6	41	21	263	3.70	7	N/A	ND	ND	16	1	2	2	45	0.17	0.10	31	10	0.76	160	0.13	5	2.33	0.01	0.01	1	2
	83808	1	47	13	76	0.1	40	20	266	3.74	8	N/A	ND	ND	16	1	2	2	46	0.17	0.09	34	9	0.77	159	0.13	5	2.31	0.01	0.01	1	2
	83809	2	25	15	88	0.1	28	16	262	3.40	7	N/A	ND	ND	3	1	2	2	37	0.06	0.04	14	20	1.00	52	0.08	5	1.72	0.01	0.02	1	1
	83810	2	21	4	91	0.1	29	18	263	3.74	10	N/A	ND	ND	3	1	2	2	40	0.05	0.04	12	24	1.15	161	0.17	5	2.21	0.02	0.02	1	1
	83811	3	25	7	76	0.1	31	18	282	3.82	7	N/A	ND	ND	4	1	2	2	42	0.07	0.04	15	50	1.02	217	0.14	5	2.18	0.01	0.02	1	1
	83812	2	22	12	120	0.1	30	16	313	3.57	13	N/A	ND	ND	4	1	2	2	36	0.11	0.06	17	42	0.97	127	0.12	5	1.94	0.01	0.01	1	1
	83813	1	20	6	106	0.1	40	22	374	4.84	13	N/A	ND	ND	5	1	2	2	53	0.18	0.09	13	51	1.39	257	0.22	5	2.91	0.02	0.01	1	1
	83814	1	23	7	56	0.1	33	17	231	4.04	8	N/A	ND	ND	3	1	2	2	37	0.08	0.05	17	37	1.03	185	0.21	5	2.32	0.01	0.01	1	1
	83815	5	19	22	80	0.4	25	11	201	1.90	19	N/A	ND	ND	72	1	7	2	25	0.68	0.05	19	33	0.53	119	0.08	5	2.04	0.02	0.04	3	1
	83816	4	31	10	168	0.1	28	16	299	3.38	13	N/A	ND	ND	5	1	2	2	30	0.08	0.04	16	37	0.88	136	0.13	5	1.90	0.01	0.02	1	1
	83817	3	21	10	72	0.3	31	16	321	3.66	10	N/A	ND	ND	4	1	2	2	31	0.14	0.08	17	36	1.00	57	0.08	5	1.92	0.01	0.02	1	1
	83818	2	28	4	36	0.2	35	16	220	3.75	6	N/A	ND	ND	6	1	2	2	39	0.22	0.13	13	36	1.08	240	0.21	5	2.29	0.02	0.02	1	1
	83819	6	29	12	59	0.1	25	14	170	2.68	6	N/A	ND	ND	4	1	2	2	28	0.04	0.03	12	36	0.76	168	0.16	5	1.61	0.01	0.03	2	1
	83820	2	26	6	72	0.1	38	18	275	4.11	7	N/A	ND	ND	6	1	2	2	45	0.15	0.09	20	35	1.09	263	0.22	5	2.46	0.02	0.02	1	1
	83821	4	18	5	69	0.1	21	14	154	2.29	15	N/A	ND	ND	2	1	6	2	41	0.05	0.03	18	42	0.72	61	0.07	5	1.21	0.01	0.02	1	1
	83822	2	17	35	103	0.1	28	15	506	3.20	10	N/A	ND	ND	5	1	3	2	43	0.13	0.03	18	45	0.94	28	0.07	5	1.71	0.01	0.02	2	1
	83823	5	11	29	57	0.2	17	8	213	1.03	18	N/A	ND	ND	142	1	7	2	14	1.26	0.04	42	27	0.32	31	0.02	5	2.28	0.04	0.02	1	1
	83824	8	10	12	27	0.1	13	7	72	0.98	12	N/A	ND	ND	3	1	2	2	13	0.03	0.02	7	36	0.28	52	0.06	5	0.56	0.01	0.01	1	1
	83825	1	45	8	133	0.1	51	25	523	6.00	11	N/A	ND	ND	4	1	2	2	45	0.11	0.05	24	49	1.54	63	0.14	5	3.03	0.01	0.02	1	1
	83826	2	33	5	87	0.1	48	25	397	5.53	6	N/A	ND	ND	4	1	2	2	57	0.10	0.05	17	49	1.51	299	0.23	5	3.16	0.02	0.02	1	1
	83827	1	28	6	57	0.2	37	18	299	4.09	10	N/A	ND	ND	5	1	2	2	40	0.16	0.09	21	36	1.07	189	0.14	5	2.35	0.01	0.02	1	1
	83828	3	17	7	66	0.1	32	16	343	3.39	10	N/A	ND	ND	7	1	2	2	39	0.12	0.03	19	40	0.99	134	0.14	5	2.04	0.01	0.03	1	1
	83829	1	22	7	40	0.1	38	17	275	3.96	8	N/A	ND	ND	4	1	2	2	39	0.08	0.04	23	31	1.10	180	0.20	5	2.41	0.01	0.01	1	1
	83830	2	22	2	43	0.1	44	20	304	4.56	9	N/A	ND	ND	4	1	2	2	45	0.10	0.05	18	38	1.31	185	0.23	5	2.77	0.02	0.02	1	1
	83831	1	25	11	43	0.1	32	19	252	3.51	11	N/A	ND	ND	4	1	2	2	38	0.09	0.05	16	38	0.95	185	0.14	5	2.01	0.01	0.01	1	1
	83832	3	23	9	50	0.2	35	22	330	4.12	11	N/A	ND	ND	5	1	2	2	48	0.06	0.03	15	48	1.20	229	0.22	5	2.51	0.02	0.02	1	1
	83833	3	26	12	31	0.2	34	21	281	4.23	10	N/A	ND	ND	6	1	2	2	50	0.27	0.15	19	44	1.29	282	0.24	5	2.66	0.02	0.02	1	1
	83834	2	26	10	36	0.3	44	27	264	5.75	9	N/A	ND	ND	4	1	2	2	64	0.09	0.05	15	54	1.53	428	0.34	5	3.44	0.03	0.02	1	2
	83835	MISSING																														
	83836	MISSING																														
	83837	5	8	11	41	0.2	5	5	160	1.22	11	N/A	ND	ND	3	1	2	2	6	0.13	0.09	13	20	0.15	57	0.03	5	0.62	0.01	0.01	1	1
	83838	7	9	13	30	0.1	4	4	93	1.09	9	N/A	ND	ND	2	1	2	2	4	0.10	0.08	11	29	0.15	49	0.03	5	0.60	0.01	0.02	1	1
	83839	8	6	11	28	0.2	5	4	90	0.69	15	N/A	ND	ND	2	1	2	2	4	0.07	0.06	6	33	0.12	32	0.03	5	0.42	0.01	0.02	1	1
	*** STDC	19	192	97	128	1.1	53	13	210	1.18	18	N/A	ND	ND	23	1	2	2	17	0.38	0.04	8	55	0.42	107	0.02	24	0.26	0.01	0.01	12	1

CERTIFIED BY :

W. R. Ruff

CAVENDISH ANALYTICAL LABORATORY LTD.

2225 S. Springer Ave., Burnaby,
British Columbia, Can. V5B 3N1
Ph:(604)299-2560 Fax:299-6252

CERTIFICATE OF ANALYSIS

TO : NORTHERN ANALYTICAL LAB
105 COPPER RD.
WHITEHORSE YUKON
PROJECT : WO#13014
TYPE OF ANALYSIS : ICP

CERTIFICATE # : 901119B
INVOICE # : NAL1119B
DATE ENTERED : NOV 18, 1990
FILE NAME : F1117B
PAGE # : 2

PRE FIX	SAMPLE NAME	PPM ND	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CD	PPM MN	% FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	% CA	% P	PPM LA	PPM CR	% MS	PPM BA	% TI	PPM B	% AL	% NA	% SI	PPM W	PPM BE
	83840	7	12	16	34	0.3	4	5	115	0.83	12	N/A	ND	ND	6	1	2	6	6	0.12	0.08	23	25	0.07	46	0.02	5	0.41	0.01	0.01	2	1
	83841	5	6	14	25	0.3	4	5	99	0.89	8	N/A	ND	ND	2	1	3	2	5	0.11	0.08	11	21	0.16	33	0.05	5	0.52	0.01	0.01	6	1
	83842	6	7	12	39	0.1	5	5	164	1.18	7	N/A	ND	ND	3	1	2	2	6	0.14	0.10	18	28	0.16	53	0.06	5	0.69	0.01	0.01	1	1
	83843	6	5	14	28	0.4	4	5	118	1.08	9	N/A	ND	ND	2	1	2	3	4	0.11	0.07	11	26	0.16	40	0.05	5	0.60	0.01	0.01	1	1
	83844	7	6	16	40	0.3	4	5	107	0.94	6	N/A	ND	ND	3	1	2	2	5	0.11	0.08	14	28	0.19	37	0.04	5	0.51	0.01	0.01	1	1
	83845	6	7	9	33	0.5	5	5	226	1.44	8	N/A	ND	ND	3	1	2	5	7	0.14	0.09	23	24	0.14	55	0.05	5	0.62	0.01	0.01	1	1
	83846	7	6	10	27	0.3	5	5	162	1.19	8	N/A	ND	ND	3	1	3	6	6	0.12	0.08	22	32	0.13	50	0.03	5	0.60	0.01	0.01	1	1
	83847	5	6	13	31	0.3	3	5	138	0.90	2	N/A	ND	ND	3	1	2	5	5	0.12	0.08	14	22	0.12	43	0.03	5	0.50	0.01	0.01	3	1
	83848	5	5	13	18	0.6	4	5	115	0.96	6	N/A	ND	ND	2	1	3	6	4	0.12	0.08	15	23	0.11	37	0.04	5	0.48	0.01	0.01	1	1
	83849	6	4	17	16	0.4	4	5	107	0.68	5	N/A	ND	ND	3	1	2	5	4	0.10	0.07	12	27	0.10	44	0.03	5	0.45	0.01	0.01	2	1
	83850	7	6	11	26	0.3	4	5	99	0.91	11	N/A	ND	ND	2	1	2	8	6	0.11	0.07	11	34	0.12	52	0.02	5	0.48	0.01	0.01	3	1
	83851	5	8	10	39	0.7	4	4	233	1.24	8	N/A	ND	ND	3	1	3	3	5	0.16	0.09	22	28	0.12	44	0.04	5	0.59	0.01	0.01	3	1
	83852	6	8	11	19	0.8	3	4	118	0.83	13	N/A	ND	ND	3	1	2	2	5	0.11	0.08	26	28	0.07	36	0.01	5	0.41	0.01	0.02	2	1
	83853	7	4	13	13	0.4	4	4	86	0.89	7	N/A	ND	ND	3	1	2	2	5	0.11	0.07	9	37	0.16	48	0.05	5	0.54	0.01	0.02	2	1
	83854	5	6	14	23	0.3	3	4	117	1.15	10	N/A	ND	ND	2	1	2	2	5	0.13	0.07	14	25	0.17	48	0.05	5	0.64	0.01	0.01	3	1
	83855	7	6	13	27	0.7	4	6	168	1.41	12	N/A	ND	ND	3	1	6	4	7	0.12	0.08	22	32	0.14	49	0.05	5	0.65	0.01	0.02	3	1
	83856	7	7	17	55	0.9	4	6	197	1.32	9	N/A	ND	ND	3	1	2	3	7	0.19	0.09	25	31	0.14	32	0.04	5	0.59	0.01	0.02	2	1
	83857	5	5	14	24	0.7	4	6	94	0.93	8	N/A	ND	ND	2	1	2	2	6	0.11	0.07	10	23	0.18	36	0.06	5	0.56	0.01	0.01	3	1
	83858	1	31	13	63	1.1	29	15	209	2.50	19	N/A	ND	ND	24	1	2	2	44	0.38	0.09	27	32	0.71	291	0.08	5	1.53	0.01	0.01	4	2
	83859	1	29	14	60	0.9	25	15	246	2.34	19	N/A	ND	ND	23	1	2	2	42	0.36	0.08	25	28	0.63	296	0.07	5	1.47	0.01	0.01	4	2
	83860	2	30	17	55	0.4	25	13	276	2.31	18	N/A	ND	ND	23	1	3	2	41	0.36	0.08	26	32	0.60	301	0.06	5	1.38	0.01	0.01	3	2
	83861	1	29	16	56	0.3	22	13	255	2.21	19	N/A	ND	ND	24	1	4	2	39	0.37	0.08	25	28	0.51	297	0.06	5	1.33	0.01	0.01	4	2
	83862	1	30	17	59	0.2	25	12	222	2.31	19	N/A	ND	ND	24	1	2	2	42	0.38	0.09	23	32	0.60	283	0.07	5	1.38	0.01	0.01	3	2
	83863	1	26	16	56	0.3	23	10	172	2.11	15	N/A	ND	ND	22	1	3	2	39	0.37	0.08	19	28	0.56	256	0.06	5	1.27	0.01	0.01	6	1
	83864	2	28	12	53	0.4	23	9	180	2.13	18	N/A	ND	ND	22	1	2	2	39	0.36	0.08	21	27	0.55	275	0.06	5	1.25	0.01	0.01	4	2
	83865	1	28	11	53	0.3	21	11	293	2.10	21	N/A	ND	ND	24	1	3	2	38	0.37	0.09	23	23	0.48	276	0.06	5	1.18	0.01	0.01	4	2
	83866	1	27	12	49	0.5	20	10	251	1.96	19	N/A	ND	ND	24	1	2	2	35	0.35	0.08	25	21	0.43	285	0.05	5	1.16	0.01	0.01	4	2
	83867	1	25	15	48	0.8	20	9	214	1.91	18	N/A	ND	ND	24	1	2	2	35	0.38	0.09	23	22	0.45	268	0.06	5	1.11	0.01	0.01	4	1
	83868	1	26	19	59	0.5	20	9	250	2.00	18	N/A	ND	ND	24	1	2	2	37	0.38	0.09	24	23	0.47	272	0.06	5	1.16	0.01	0.01	4	2
	83869	13	5	14	20	0.1	6	3	46	0.34	9	N/A	ND	ND	3	1	3	2	6	0.24	0.02	3	54	0.05	33	0.01	5	0.14	0.01	0.01	3	1
	83870	7	7	13	21	0.7	6	5	150	0.67	12	N/A	ND	ND	4	1	2	7	7	0.21	0.07	13	33	0.06	68	0.03	5	0.38	0.01	0.02	2	1
	83871	4	10	11	41	0.9	5	6	188	1.66	8	N/A	ND	ND	3	1	2	8	19	0.13	0.07	28	26	0.24	66	0.14	5	0.91	0.01	0.01	1	1
	83872	5	10	12	44	0.6	7	5	205	1.73	10	N/A	ND	ND	3	1	2	2	20	0.13	0.07	25	31	0.25	61	0.15	5	1.00	0.01	0.01	2	1
	83873	4	10	11	36	0.7	6	6	174	1.57	8	N/A	ND	ND	4	1	2	2	19	0.12	0.06	25	25	0.24	69	0.13	5	0.94	0.01	0.02	1	1
	83874	5	10	13	39	0.7	6	6	194	1.68	8	N/A	ND	ND	4	1	2	4	19	0.14	0.07	28	30	0.25	68	0.15	5	1.00	0.01	0.03	1	1
	83875	5	12	9	39	0.8	5	5	194	1.68	8	N/A	ND	ND	4	1	2	4	19	0.12	0.06	23	27	0.24	64	0.14	5	0.99	0.01	0.02	2	1
	83876	3	9	11	40	0.5	6	6	184	1.65	4	N/A	ND	ND	3	1	3	2	19	0.12	0.06	24	23	0.25	60	0.15	5	0.97	0.01	0.02	1	1
	83877	5	10	12	31	0.5	6	5	158	1.40	11	N/A	ND	ND	4	1	2	2	17	0.11	0.06	17	27	0.21	61	0.11	5	0.88	0.01	0.02	1	1
	83878	4	9	8	34	0.8	6	6	172	1.61	5	N/A	ND	ND	3	1	2	2	19	0.11	0.05	24	22	0.24	65	0.15	5	0.97	0.01	0.01	1	1
***	STD-D	4	127	118	568	5.0	4	2	71	0.86	24	N/A	ND	ND	10	3	7	2	4	0.10	0.06	8	6	0.03	196	0.01	130	0.19	0.01	0.01	10	1

CERTIFIED BY :

W. Roney

CAVENDISH ANALYTICAL LABORATORY LTD.

2225 S. Springer Ave., Burnaby,
British Columbia, Can. V5B 3R1
Ph:(604)299-2560 Fax:299-6252

CERTIFICATE OF ANALYSIS

TO : NORTHERN ANALYTICAL LAB
105 COPPER RD.
WHITEHORSE YUKON
PROJECT : WOH13014
TYPE OF ANALYSIS : ICP

CERTIFICATE # : 901119B
INVOICE # : NAL1119B
DATE ENTERED : NOV 18, 1990
FILE NAME : P1117B
PAGE # : 3

PRE FIX	SAMPLE NAME	PPM NO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CO	PPM HM	I FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	I CA	I P	PPM LA	PPM CR	I MG	PPM BA	I TI	PPM B	I AL	I NA	I SI	PPM W	PPM BE
	93879	5	10	18	36	0.5	6	8	180	1.73	10	N/A	ND	ND	4	1	9	5	20	0.11	0.05	17	34	0.25	70	0.14	5	1.05	0.01	0.02	3	1
	93880	3	10	16	30	0.8	5	8	171	1.61	4	N/A	ND	ND	3	1	2	6	20	0.11	0.05	19	25	0.24	54	0.12	5	0.94	0.01	0.01	2	1
	83881	4	10	10	50	0.5	5	8	194	1.80	9	N/A	ND	ND	3	1	2	3	21	0.12	0.06	23	27	0.27	63	0.15	5	1.06	0.01	0.01	1	1
	83882	5	9	16	38	0.5	5	7	156	1.42	7	N/A	ND	ND	4	1	5	2	16	0.12	0.06	24	32	0.21	56	0.12	5	0.86	0.01	0.01	1	1
	83883	4	11	17	25	0.6	5	7	149	1.33	8	N/A	ND	ND	3	1	2	6	16	0.12	0.06	23	22	0.20	55	0.09	5	0.76	0.01	0.01	1	1
	93884	4	10	15	38	0.7	5	8	187	1.76	7	N/A	ND	ND	3	1	2	2	20	0.13	0.07	29	25	0.26	67	0.16	5	1.01	0.01	0.01	1	1
	93885	4	9	13	34	0.4	5	7	178	1.63	12	N/A	ND	ND	3	1	3	2	18	0.13	0.07	32	26	0.24	64	0.16	5	0.96	0.01	0.02	1	1
	93886	5	8	16	35	0.4	4	6	173	1.55	14	N/A	ND	ND	3	1	2	3	18	0.12	0.06	31	27	0.23	56	0.15	5	0.90	0.01	0.01	1	1
	83887	5	9	15	37	0.6	5	7	186	1.63	16	N/A	ND	ND	4	1	4	2	18	0.13	0.07	31	30	0.24	62	0.15	5	0.97	0.01	0.02	1	1
	83888	5	8	12	33	0.6	5	6	169	1.49	10	N/A	ND	ND	3	1	2	5	17	0.12	0.06	28	27	0.22	58	0.14	5	0.90	0.01	0.02	1	1
	83889	4	9	6	50	0.9	7	7	248	1.91	10	N/A	ND	ND	3	1	3	15	23	0.13	0.06	41	32	0.29	62	0.19	5	1.05	0.01	0.01	3	1
	83890	6	9	10	40	0.9	6	6	185	1.55	9	N/A	ND	ND	3	1	2	6	17	0.13	0.07	38	37	0.23	49	0.15	5	0.89	0.01	0.01	3	1
	*** STD-69	19	222	357	434	1.4	14	5	114	0.78	178	N/A	ND	ND	15	1	8	2	13	0.59	0.03	7	56	0.24	42	0.02	5	0.22	0.01	0.01	3	1
	*** STDS	23	766	487	476	19.1	225	317	916	3.22	327	830	56	610	706	161	851	397	109	0.38	2.40	1045	47	0.46	276	0.13	560	1.50	0.09	0.01	286	49

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APPENDIX C

Rock Sample Descriptions

AURUM GEOLOGICAL CONSULTANTS INC.

SAMPLE LOCATION AND DESCRIPTION

Date: Nov. 03, 1990 Property: HAM-CLAIMS NTS: 115 0/9 Samplers: D.M.O. Area: North of MT. Burnham, Yukon

Sample Number	Location	Description	Attitude	Width meters	Analytical results				
					Au ppb	Ag ppm	As ppm	Pb ppm	Zn ppm
ROCKS									
83801	Site #1 Trench #1 West side	Quartz - siliceous, narrow band of muscovite. Quartz is purple in color. 100%	GRAB	GRAB	<10	1.3	252	129	1753
83802	Site #1 Trench #1 West side	Shistose(?) Micaceous band running through sample. Siliceous lightly.	GRAB	GRAB	<10	0.2	54	45	427
83803	Site #1 Trench #1 West side	White, purple Quartz. Some muscovite(black, green). 50% quartz, coarse crystalline. Pegmatitic(?)	GRAB	GRAB	<10	0.1	42	15	388
83804	Site #1 Trench #1 West side	Granodiorite. Siliceous, some mica (muscovite). Quartz-purple. Epidote. Minor garnet.	GRAB	GRAB	<10	0.7	40	28	225
83805	Site #1 Trench #1	Massive muscovite, biotite. Foliated. Minor quartz, feldspars. Shist.	GRAB	GRAB	<10	0.1	9	3	172
83806	Site #1 Trench #1	Massive muscovite, biotite. Foliated. Minor quartz, feldspars. Shist.	GRAB	GRAB	<10	0.1	8	1	63
SOILS									
83807	Site #1 Trench #1	Alluvium Fines.	N/A	N/A	<10	0.6	7	10	92
83808	Site #1 Trench #1	Alluvium Fines.	N/A	N/A	<10	0	8	13	76
ROCKS									
83809	Site #1 Trench #2 0-0.5m	Biotite, muscovite, Quartz, feldspars. Foliated. Shist.	channel	channel	<10	0	7	15	88
83810	Site #1 Trench #2 0.5-1.0m	Biotite, muscovite, Quartz, feldspars. Foliated. Shist.	channel	channel	<10	0.1	10	4	91
83811	Site #1 Trench #2 1.0-1.5m	Biotite, muscovite, Quartz, feldspars. Foliated. Shist.	channel	channel	<10	0.1	7	7	76
83812	Site #1 Trench #2 1.5-2.0m	Quartz, epidote, muscovite, Massive biotite. Feldspars. Foliated. Shist with quartz vein.	channel	channel	<10	0	13	12	120

AURUM GEOLOGICAL CONSULTANTS INC.

SAMPLE LOCATION AND DESCRIPTION

Date: Nov. 03. 1990 Property: HAM-CLAIMS NTS: 115 0/9 Samplers: D.M.O. Area: North of MT. Burnham, Yukon

Sample Number	Location	Description	Attitude	Width meters	Analytical results				
					Au ppb	Ag ppm	As ppm	Pb ppm	Zn ppm
83813	Site #1 Trench #2 2.0-2.5m	Biotite, quartz, feldspars, muscovite. Foliated. Shist.	channel	channel	<10	0	13	6	106
83814	Site #1 Trench #2 2.5-3.0m	Biotite, quartz, muscovite, feldspar, Medium grained. Foliated. Shist.	channel	channel	<10	0	8	7	56
83815	Site #1 Trench #2 3.0-3.5m	Biotite, quartz, feldspars, muscovite. Foliated. Shist.	channel	channel	<10	0.4	19	22	80
83816	Site #1 Trench #2 3.5-4.0m	Biotite, quartz, feldspars, muscovite. Foliated. Shist.	channel	channel	<10	0.1	13	10	168
83817	Site #1 Trench #2 4.0-4.5m	Biotite, muscovite, quartz, Shist. Foliated.	channel	channel	<10	0.3	10	10	72
83818	Site #1 Trench #2 4.5-5.0m	Biotite, muscovite, quartz, Shist. Foliated.	channel	channel	<10	0.2	6	4	36
83819	Site #1 Trench #2 5.0-5.5m	Biotite, muscovite, quartz, Shist. Foliated.	channel	channel	<10	0	6	12	59
83820	Site #1 Trench #2 5.5-6.0m	Biotite, muscovite, quartz, Shist. Foliated.	channel	channel	<10	0.1	7	6	72
83821	Site #1 Trench #2 South side of trench.	Minor quartz, feldspars, biotite. Micaceous, siliceous. Shist.	GRAB	GRAB	<10	0.1	15	5	69
83822	Site #1 Trench #2 Center of trench.	Quartz, muscovite, biotite, minor epidote. Possible granodiorite contact. Shist.	GRAB	GRAB	<10	0.1	10	35	103
83823	Site #1 Trench #2 Center of	Granodiorite. Garnets(?), siliceous, minor quartz, biotite. Micaceous.	GRAB	GRAB	<10	0.2	12	29	57

AURUM GEOLOGICAL CONSULTANTS INC.

SAMPLE LOCATION AND DESCRIPTION

Date: Nov. 03. 1990 Property: HAM-CLAIMS NTS: 115 0/9 Samplers: D.M.O. Area: North of MT. Burnham, Yukon

Sample Number	Location	Description	Attitude	Width meters	Analytical results				
					Au ppb	Ag ppm	As ppm	Pb ppm	Zn ppm
	trench.								
83824	Site #1 Trench #2 North end of trench.	Quartz-purple-grey, white quartz, epidote. Micaceous.	GRAB	GRAB	<10	0.1	12	12	27
83825	Site #1 Trench #1 0-0.5m	Biotite, minor quartz, muscovite. Foliated. Shist.	channel	channel	<10	0.1	11	8	133
83826	Site #1 Trench #1 0.5-1.0m	Biotite, minor quartz, muscovite. Foliated. Shist.	channel	channel	<10	0.1	6	5	87
83827	Site #1 Trench #1 1.0-1.5m	Biotite, minor quartz, muscovite. Foliated. Shist.	channel	channel	<10	0.2	10	57	6
83828	Site #1 Trench #1 1.5-2.0m	Biotite, quartz, muscovite, feldspars. Foliated. Possible Shist-Granodiorite contact.	channel	channel	<10	0.1	10	7	66
83829	Site #1 Trench #1 2.0-2.5m	Biotite, muscovite, minor quartz. Foliated. Shist.	channel	channel	<10	0.1	8	7	40
83830	Site #1 Trench #1 2.5-3.0m	Biotite, muscovite, quartz, feldspars, Foliated. Shist.	channel	channel	<10	0.1	9	2	43
83831	Site #1 Trench #1 3.0-3.5m	Biotite, muscovite, quartz, feldspars, Foliated. Shist.	channel	channel	<10	0	11	11	43
83832	Site #1 Trench #1 3.5-4.0m	Biotite, muscovite, quartz. Foliated. Shist.	channel	channel	<10	0.2	11	9	50
83833	Site #1 Trench #1 4.0-4.5m	Biotite, muscovite, quartz, feldspars. Foliated. Shist.	channel	channel	<10	0.2	10	12	31
83834	Site #1 Trench #1 4.5-5.0m	Biotite, muscovite, quartz. Foliated. Shist.	channel	channel	<10	0.3	9	10	36

AURUM GEOLOGICAL CONSULTANTS INC.

SAMPLE LOCATION AND DESCRIPTION

Date: Nov. 05. 1990 Property: HAM-CLAIMS NTS: 115 0/9 Samplers: D.M.O. Area: MT. Burnham, Yukon SITE 2

Sample Number	Location	Description	Attitude	Width meters	Analytical results				
					Au ppb	Ag ppm	As ppm	Zn ppm	Pb ppm
ROCKS									
83837	Site #2 Trench #1 0-0.5m	Muscovite, quartz, feldspar, biotite. Fine - medium grained. Shist.	channel	channel	<10	0.2	11	11	41
83838	Site #2 Trench #1 0.5-1.0m	Muscovite, quartz, feldspar, biotite. Medium grained. Shist.	channel	channel	<10	0.1	9	13	30
83839	Site #2 Trench #1 1.0-1.5m	Purple-grey quartz, muscovite, biotite, feldspars. Fine - medium grained. Shist.	channel	channel	<10	0.2	15	11	28
83840	Site #2 Trench #1 1.5-2.0m	Biotite, muscovite, quartz, feldspars. White & black in color. Shist.	channel	channel	<10	0.3	12	16	34
83841	Site #2 Trench #1 2.0-2.5m	Biotite, muscovite, quartz, feldspars. White & black in color. Shist.	channel	channel	<10	0.3	8	14	25
83842	Site #2 Trench #1 2.5-3.0m	Biotite, muscovite, quartz, feldspars. Medium - coarse grained. Shist.	channel	channel	<10	0	7	12	39
83843	Site #2 Trench #1 3.0-3.5m	Biotite, muscovite, quartz, feldspars. Medium - coarse grained. Shist.	channel	channel	<10	0.4	9	14	28
83844	Site #2 Trench #1 3.5-4.0m	Biotite, muscovite, quartz, feldspars. Medium - coarse grained. Shist.	channel	channel	<10	0.3	6	16	40
83845	Site #2 Trench #1 4.0-4.5m	Biotite, muscovite, quartz, feldspars. Medium grained. Shist.	channel	channel	<10	0.5	8	9	33
83846	Site #2 Trench #1 4.5-5.0m	Biotite, muscovite, quartz, feldspars. Medium grained. Shist.	channel	channel	<10	0.3	8	10	27
83847	Site #2 Trench #1 5.0-5.5m	Biotite, muscovite, quartz, feldspars. Medium grained. Shist.	channel	channel	<10	0.3	2	13	31
83848	Site #2	Biotite, muscovite, quartz, feldspars.	channel	channel	<10	0.6	6	13	18

AURUM GEOLOGICAL CONSULTANTS INC.

SAMPLE LOCATION AND DESCRIPTION

Date: Nov. 05. 1990 Property: HAM-CLAIMS NTS: 115 0/9 Samplers: D.M.O. Area: MT. Burnham, Yukon SITE 2

Sample Number	Location	Description	Attitude	Width meters	Analytical results				
					Au ppb	Ag ppm	As ppm	Zn ppm	Pb ppm
	Trench #1 5.5-6.0m	Fine - medium grained. Shist.							
83849	Site #2 Trench #1 6.0-6.5m	Biotite, muscovite, quartz, feldspars. Medium grained. Shist.	channel	channel	<10	0.4	5	17	16
83850	Site #2 Trench #1 6.5-7.0m	Biotite, muscovite, quartz, feldspars. Medium grained. Shist.	channel	channel	<10	0.3	11	11	26
83851	Site #2 Trench #1	Quartz, biotite, muscovite, feldspars. Soft and crumbly. White & black. Pegmatitic(?)	GRAB	GRAB	<10	0.7	8	10	39
83852	Site #2 Trench #1	Quartz, muscovite, biotite, feldspars. Orange & black. Medium grained. Shist.	GRAB	GRAB	<10	0.8	13	11	19
83853	Site #2 Trench #1	Feldspar, quartz, biotite, muscovite. Shist. Orange, black and white in color.	GRAB	GRAB	39	0.4	7	13	13
83854	Site #2 Trench #1	Biotite, muscovite, quartz, feldspars. White & black. Pegmatitic(?) Shist?	GRAB	GRAB	<10	0.3	10	14	23
83855	Site #2 Trench #1	Biotite, muscovite, feldspars, quartz, biotite. Orange and black. Medium grained. Shist.	GRAB	GRAB	<10	0.7	12	13	27
83856	Site #2 Trench #1	Quartz, feldspars, biotite, muscovite. Orange, black & white. Shist.	GRAB	GRAB	<10	0.9	9	17	55
83857	Site #2 Trench #1	Quartz, biotite, muscovite, feldspars. White & black. Shist.	GRAB	GRAB	<10	0.7	8	14	24

AURUM GEOLOGICAL CONSULTANTS INC.

SAMPLE LOCATION AND DESCRIPTION

Date: Nov. 06. 1990 Property: HAM-CLAIMS NTS: 115 0/9 Samplers: D.M.O. Area: West MT. Burnham, Yukon SITE 3 HAM 223

Sample Number	Location	Description	Attitude	Width meters	Analytical results					
					Au ppb	Ag ppm	As ppm	Pb ppm	Zn ppm	
ROCKS										
83871	Site #3 Trench #1	Biotite, purple-grey quartz, muscovite. Coarse grained. Pegmatitic(?)	GRAB	GRAB	<10	0.9	8	11	41	
83872	Site #3 Trench #1	Biotite, purple-grey quartz, white quartz, muscovite, feldspars. Coarse grained. Pegmatitic(?)	GRAB	GRAB	<10	0.6	10	12	44	
83873	Site #3 Trench #1 0-0.5m	Quartz, biotite, muscovite, feldspars. Coarse grained. Pegmatitic(?)	channel	channel	<10	0.7	8	11	36	
83874	Site #3 Trench #1 0.5-1.0m	Quartz, biotite, muscovite, feldspars. Coarse grained. Pegmatitic(?)	channel	channel	<10	0.7	8	13	39	
83875	Site #3 Trench #1 1.0-1.5m	Quartz, biotite, muscovite, feldspars. Coarse grained. Pegmatitic(?)	channel	channel	<10	0.8	8	9	39	
83876	Site #3 Trench #1 1.5-2.0m	Quartz, biotite, muscovite. Coarse grained. Pegmatitic(?)	channel	channel	<10	0.5	4	11	40	
83877	Site #3 Trench #1 2.0-2.5m	Quartz, biotite, muscovite. Coarse grained. Pegmatitic(?)	channel	channel	<10	0.5	11	12	31	
83878	Site #3 Trench #1 2.5-3.0m	Quartz, biotite, muscovite. Coarse grained. Pegmatitic(?)	channel	channel	<10	0.8	5	8	34	
83879	Site #3 Trench #1 3.0-3.5m	Quartz, biotite, muscovite. Coarse grained. Pegmatitic(?)	channel	channel	<10	0.5	10	18	36	
83880	Site #3 Trench #1 3.5-4.0m	Quartz, biotite, muscovite. Coarse grained. Pegmatitic(?)	channel	channel	<10	0.8	4	16	30	
83881	Site #3 Trench #1 4.0-4.5m	Quartz, biotite, muscovite. Coarse grained. Pegmatitic(?)	channel	channel	<10	0.5	9	10	50	
83882	Site #3 Trench #1	Quartz, biotite, muscovite. Coarse grained. Pegmatitic(?)	channel	channel	<10	0.5	7	16	30	

AURUM GEOLOGICAL CONSULTANTS INC.

SAMPLE LOCATION AND DESCRIPTION

Date: Nov. 06. 1990 Property: HAM-CLAIMS NTS: 115 0/9 Samplers: D.M.O. Area: West MT. Burnham, Yukon

SITE 3 HAM 223

Sample Number	Location	Description	Attitude	Width meters	Analytical results				
					Au ppb	Ag ppm	As ppm	Pb ppm	Zn ppm
	4.5-5.0m								
83883	Site #3 Trench #1 5.0-5.5m	Quartz, biotite, muscovite. Coarse grained. Pegmatitic(?)	channel	channel	<10	0.6	8	17	25
83884	Site #3 Trench #1 5.5-6.0m	Quartz, biotite, muscovite, feldspars, Coarse grained. Pegmatitic(?)	channel	channel	<10	0.7	7	15	38
83885	Site #3 Trench #1 6.0-6.5m	Quartz, biotite, muscovite. Coarse grained. Pegmatitic(?)	channel	channel	<10	0.4	12	13	34
83886	Site #3 Trench #1 6.5-7.0m	Quartz, biotite, muscovite. Coarse grained. Pegmatitic(?)	channel	channel	<10	0.4	14	16	35
83887	Site #3 Trench #1 7.0-7.5m	Quartz, biotite, muscovite. Coarse grained. Pegmatitic(?)	channel	channel	<10	0.6	16	15	37
83888	Site #3 Trench #1 7.5-8.0m	Quartz, biotite, muscovite. Coarse grained. Pegmatitic(?)	channel	channel	<10	0.6	10	12	33
83889	Site #3 Trench #1 South side of outcrop.	Minor purple quartz, biotite, muscovite. Coarse grained. Pegmatitic(?)	GRAB	GRAB	<10	0.9	10	6	50
83890	Site #3 Trench #1 South side of outcrop.	Minor purple quartz, biotite, muscovite. Coarse grained. Pegmatitic(?)	GRAB	GRAB	<10	0.9	9	16	40

AURUM GEOLOGICAL CONSULTANTS INC.

SAMPLE LOCATION AND DESCRIPTION

Date: Nov. 05. 1990 Property: HAM-CLAIMS NTS: 115 Q/9 Samplers: D.M.O. Area: Northwest MT. Burnham, Yukon SITE 4 HAM 317

Sample Number	Location	Description	Attitude	Width meters	Analytical results				
					Au ppb	Ag ppm	As ppm	Pb ppm	Zn ppm
SOILS									
83858	Site #4 Trench #1 0-0.5m	Alluvium fines (80%). (muscovite within as well as minor quartz and some biotite).	N/A	N/A	<10	1.1	19	13	63
83859	Site #4 Trench #1 0.5-1.0m	Alluvium fines (80%). (muscovite within as well as minor quartz and some biotite).	N/A	N/A	<10	0.9	19	14	60
83860	Site #4 Trench #1 1.0-1.5m	Alluvium fines (80%). (muscovite within as well as minor quartz and some biotite).	N/A	N/A	<10	0.4	18	17	55
83861	Site #4 Trench #1 1.5-2.0m	Alluvium fines (80%). (muscovite within as well as minor quartz and some biotite).	N/A	N/A	<10	0.3	19	16	56
83862	Site #4 Trench #1 2.0-2.5m	Alluvium fines (80%). (muscovite within as well as minor quartz and some biotite).	N/A	N/A	<10	0.2	19	17	59
83863	Site #4 Trench #1 2.5-3.0m	Alluvium fines (80%). (muscovite within as well as minor quartz and some biotite).	N/A	N/A	<10	0.3	15	16	56
83864	Site #4 Trench #1 3.0-3.5m	Alluvium fines (80%). (muscovite within as well as minor quartz and some biotite).	N/A	N/A	<10	0.4	18	12	53
83865	Site #4 Trench #1 3.5-4.0m	Alluvium fines (80%). (muscovite within as well as minor quartz and some biotite).	N/A	N/A	<10	0.3	21	11	53
83866	Site #4 Trench #1 4.0-4.5m	Alluvium fines (80%). (muscovite within as well as minor quartz and some biotite).	N/A	N/A	<10	0.5	19	12	49
83867	Site #4 Trench #1 4.5-5.0m	Alluvium fines (80%). (muscovite within as well as minor quartz and some biotite).	N/A	N/A	<10	0.8	18	15	48
83868	Site #4 Trench #1 5.0-5.5m	Alluvium fines (80%). (muscovite within as well as minor quartz and some biotite).	N/A	N/A	<10	0.5	18	19	59

ROCKS

AURUM GEOLOGICAL CONSULTANTS INC.

SAMPLE LOCATION AND DESCRIPTION

Date: Nov. 05. 1990 Property: HAM-CLAIMS NTS: 115 0/9 Samplers: D.M.O. Area: Northwest MT. Burnham, Yukon SITE 4 HAM 317

Sample Number	Location	Description	Attitude	Width meters	Analytical results				
					Au ppb	Ag ppm	As ppm	Pb ppm	Zn ppm
83869	Site #4 Trench #1	100% Quartz.	GRAB	GRAB	<10	0	9	14	20
83870	Site #4 Trench #1	Quartz, feldspar, hornblende, muscovite, biotite.	GRAB	GRAB	<10	0.7	12	13	21