

**2001 DIAMOND DRILLING REPORT  
ON THE  
CANYON GOLD GREW CREEK PROJECT**

**Whitehorse Mining District  
NTS: 105K/2  
Latitude 62.03', Longitude 132°50'**

**CANYON CLAIMS  
(June 24<sup>th</sup>-August 29<sup>th</sup>, 2001)**

**By: A. Carlos (owner of claims)  
January 15, 2002**

**File Number 01-012**

*1512*

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## **INTRODUCTION**

History of the Grew Creek deposit area leading to the present is detailed further on in this text. The summer of 2001, between June 24<sup>th</sup> and 29<sup>th</sup>, was spent in an attempt to assess a geochemical anomaly (Enzyme Leach anomaly E) determined during a soil survey performed the prior year.

## **PROGRAM 2001**

A total of 627 ft. in 4 holes was drilled using a Hydracore machine producing 1.39 inch diameter core. Recovery was excellent, with the deepest hole drilled to 325 ft. (-50°). This program could not have taken place without the aid of my sons (Luke and Shane). Though no economic mineralization was determined, we were successful in locating hydrothermal brecciation noted in hole 4 and interpreted as such in hole 95-172 (fig.3). This is significant, for in essence we have determined the presence of what appears to be an extensive portion of a fossil hydrothermal system.

## **RECOMMENDATIONS**

Drill core geochemical data indicates that attention be directed to the general area of hole 1 and 3. Geological modeling, together with evidence from diamond drill holes 4 and 95-172, suggests turning the drill 180° to the northeast. Precise drill hole locations are yet to be determined.

## **DISCUSSION OF DIAMOND DRILLING**

The following discussion summarizes the 2001 drill program on claim Canyon 15. Detail drill log descriptions, cross sections and assays are reported in Appendix 2, 3 and 4.

Hole CGGC 1 was drilled to test the Enzyme Leach apical anomaly on line 11+300E. Clay rich fractures within the rhyolite porphyry gave us some problems, but recovery was good. At 136 ft. I became concerned that, on the evidence, we might not be able to drill as far as necessary to encounter potential mineralization.

(1)

cont'd pg. 5

# GEOLOGY: THE YUKON'S UNIQUE RESOURCE



The Yukon's geology is complex and full of surprises. Over the years, areas previously explored for minerals have been revisited with innovative technology and geological modelling, resulting in the discovery of new deposits. The tumultuous geological history of the Yukon's rocks, combined with the fact that

our large territory has not yet been fully explored, creates the potential for large discoveries.

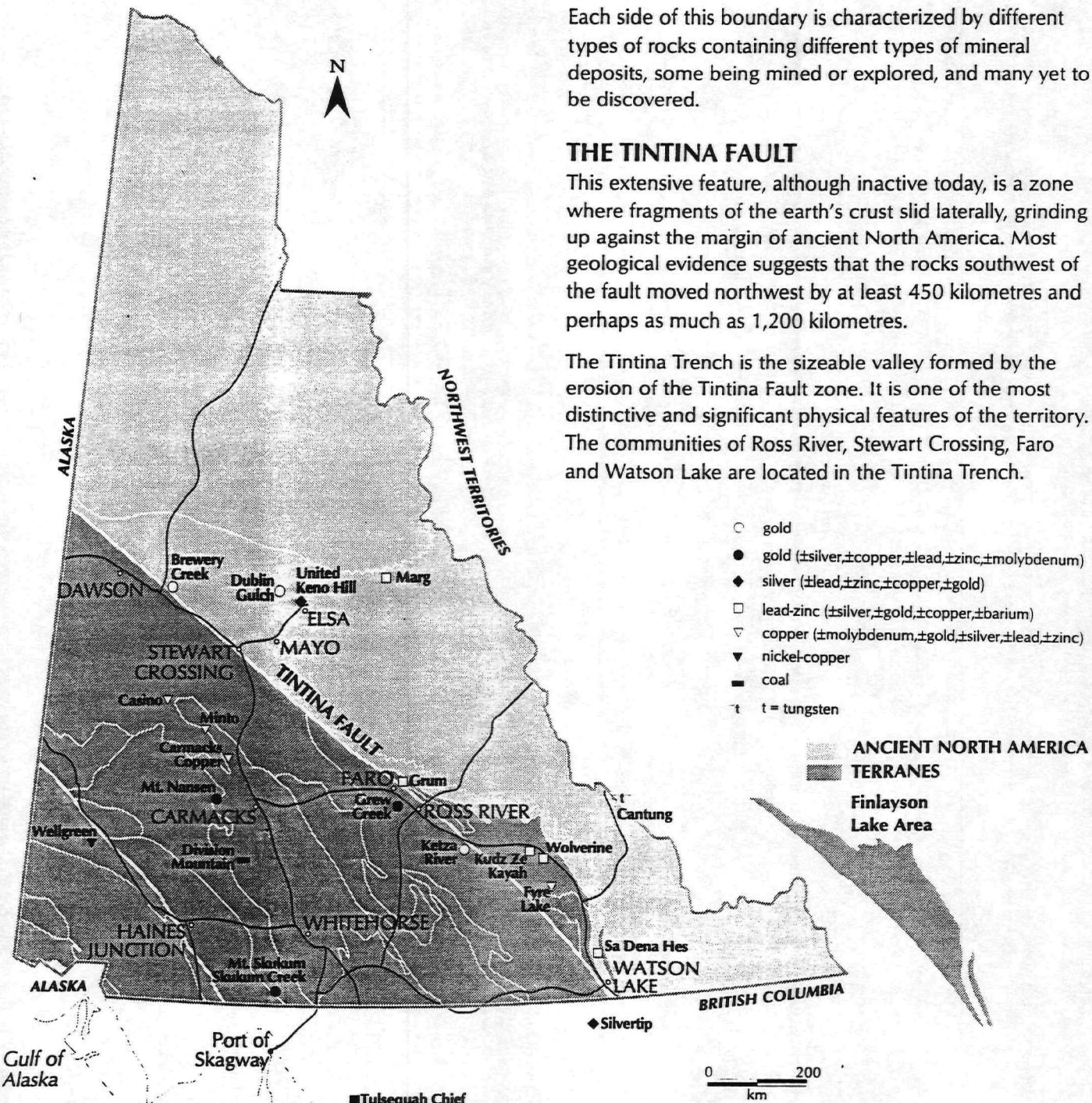
The Yukon's geology can be roughly split into two rock groups: those north of the Tintina Fault and those south of it. This dividing line cuts northwest to southeast across the territory from Alaska to northern British Columbia.

Each side of this boundary is characterized by different types of rocks containing different types of mineral deposits, some being mined or explored, and many yet to be discovered.

## THE TINTINA FAULT

This extensive feature, although inactive today, is a zone where fragments of the earth's crust slid laterally, grinding up against the margin of ancient North America. Most geological evidence suggests that the rocks southwest of the fault moved northwest by at least 450 kilometres and perhaps as much as 1,200 kilometres.

The Tintina Trench is the sizeable valley formed by the erosion of the Tintina Fault zone. It is one of the most distinctive and significant physical features of the territory. The communities of Ross River, Stewart Crossing, Faro and Watson Lake are located in the Tintina Trench.



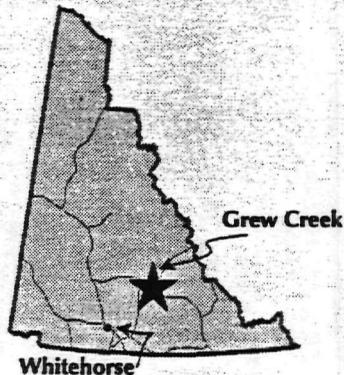
# GREW CREEK PROJECT

Owner: A. Carlos  
Whitehorse, Yukon

Phone (867) 668-6309

## PROJECT STATUS

Available for option



## HISTORY

The original Grew Creek claims were staked by Whitehorse prospector A. Carlos in 1983 and optioned by the Mincan JV (Hudson Bay Mining and Minerals), which carried out an extensive exploration program from 1984 to 1986.

In 1987, the claims were optioned by Noranda, who subsequently signed a joint-venture agreement with Golden Nevada Resources and Brenda Mines. Results of the 1987 program triggered a flurry of claimstaking and exploration activity in the area. A large-scale exploration program continued in 1988. In 1989, Golden Nevada changed its name to Goldnev Resources and renegotiated the joint venture agreement to give it a 100% interest in the property.

In 1992, Wheaton River Minerals took an option to conduct an underground development program, however, the option was dropped shortly after.

YGC Resources Ltd. optioned the property in 1993, and completed a \$150,000 drilling program at Grew Creek in 1995 and a 17 diamond-drill hole program in 1996. YGC terminated its option agreement with Carlos in January, 1997.

### Location

35 km west of Ross River

### Ownership

A. Carlos

### Commodity

Gold, silver

### Ore type

Oxide

### Geological reserve

773,012 tonnes

Silver: 33 grams/tonne

Gold: 8.9 grams/tonne

### Proposed mining method

Open-pit, 365 days per year

### Processing method

Conventional mill, dore bar, 365 days per year

### Power

3 MW, on-site diesel generation

In 2000, a total of \$36,000 was spent by A. Carlos exploring a new area 1.8 km from the main zone.

## PROJECT SUMMARY

The Grew Creek deposit can be mined by open-pit methods with a stripping ratio of 9:1, waste to ore. Metallurgical testing by Noranda in 1988 indicated that recoveries of 92% to 94% are possible using simple cyanide processing.

The Grew Creek property is located approximately 35 km west of Ross River and one km from the Robert Campbell Highway and the Whitehorse power grid. The property consists of 138 claims and is owned by A. Carlos of Whitehorse.

## GEOLOGY, MINERALOGY AND ORE RESERVES

The Grew Creek epithermal gold deposit is hosted by Eocene volcanic and sedimentary rocks deposited in a pull-apart basin within the Tintina Fault zone. The gold occurs in stockwork quartz veins and hydrothermal breccias cutting hydrothermally altered rhyolite.

In the main zone, rhyolitic tuffs are juxtaposed by an east-west fault against a cyclic sequence of fluvial sediments.

The faulted contact is partly intruded by a quartz-feldspar porphyry dyke. The pyroclastic rocks, dyke, fault and sediments all dip steeply to the north. The volcanic rocks are hydrothermally altered to illite-quartz and illite-quartz-adularia assemblages, with an outer propylitic halo.

Mineralization consists of pyrite, marcasite, arsenopyrite, chalcopyrite, argentite, electrum, silver selenides, galena and sphalerite. Fluorite is also present in the Tarn zone. Gangue minerals include quartz, adularia, carbonates, and quartz pseudomorphs after calcite. In the main zone, gold and silver occur as micron-size grains in chalcedony stringer stockworks and adjacent silicified tuffs. There is a good correlation between gold and silver, with a gold:silver ratio of about 1:4 for ore-grade mineralization, which occurs in an elongated zone trending west northwest. The mineralization is strongly anomalous in arsenic and mercury, but mercury shows only a weak correlation with gold and silver. Most high mercury values lie along the fault, above the gold-silver zone.

Initial drilling on the main zone gave a best intersection of 11.7 grams/tonne Au and 150.9 grams/tonne Ag across 31.4 m while the best section exposed in a trench assayed 3.6 grams/tonne Au and 15.3 grams/tonne Ag across 13 m. The 1989 drilling focused on the main zone, with the best hole returning 10.5 grams/tonne Au over 13 m.

The Tarn zone, located 2 km to the east, consists of quartz-fluorite-chalcedony stockworks and localized silicification within a 900 x 100 m zone of sericitized rhyolite dykes and tuff. The best assays were 150 ppb Au across 2.0 m in a trench and 520 ppb Au over 1.5 m in a drill hole.

Prospecting in the area is difficult due to a thick cover of glacial till. Plouffe (1989) showed that gold is concentrated in the silt- and clay-size fraction down ice from the Grew Creek deposit, but the common pathfinder elements Ag,

Sb, As and Hg show little correlation with the gold distribution.

In 1991, a trench in the K410 zone, 15 km northwest of the deposit, uncovered intensely iron-stained, highly fractured acid-leached volcanic rocks. Carlos excavated four hand pits to bedrock in 1992 and encountered intensely clay-altered Eocene sediments with hematite-rich bands. Samples from the pits returned anomalous values of mercury and barium, and a heavy mineral concentrate from 45 kg of glacial till in Pit #2 assayed 9,320 ppb Au.

The 1993 diamond drilling intersected strongly altered volcanic rocks beneath a zone of hydrothermal alteration exposed in a surface trench.

The 1994 drilling showed that mineralization in the South Zone consists of an extensive quartz-adularia stringer stockwork of low-grade Au-Ag values. The best intersections were 2.33 grams/tonne Au and 4.1 grams/tonne Ag over 10.4 m. The South Zone mineralization appears to be connected with the Main Zone mineralization, but further drilling between the two zones needs to be carried out to confirm this theory. Drilling in the Main Zone confirmed earlier reported grades. The best intersection was 1.69 grams/tonne Au and 3.0 grams/tonne Ag over 24 m.

In 2000, a total of 558 soil samples were grid-collected over a 2 km area and analyzed by the enzyme leach method. To date, (5) new geochemical targets have been delineated in a favourable structural area north of the Tarn zone, adjacent to the Robert Campbell Highway.

## PRODUCTION PLANS

In 1989, Orcan Mineral Associates estimated geological reserves of 773,012 tonnes grading 8.9 grams/tonne Au and 33.6 grams/tonne Ag at a cut-off grade of 0.2 grams/tonne and containing a higher grade reserve of 184,947 tonnes grading 12.1 grams/tonne Au.

Hole CGGC 2 was located to drill a local physiographic low, trending in a northwesterly direction. As well, we were more closely located to 2 conventional soil sample sights anomalous in Au. We stopped the hole at 54 ft., as alteration was less evident than in hole CCGC 1.

Hole CGGC 3 was to determine the cause of the second Enzyme Leach peak of anomaly E, as recommended by Gregory Hill of Enzyme Laboratories, Inc. Though quite well altered and brecciated, we stopped the hole in rhyolite porphyry at 112 ft., concerned about depth to possible mineralization.

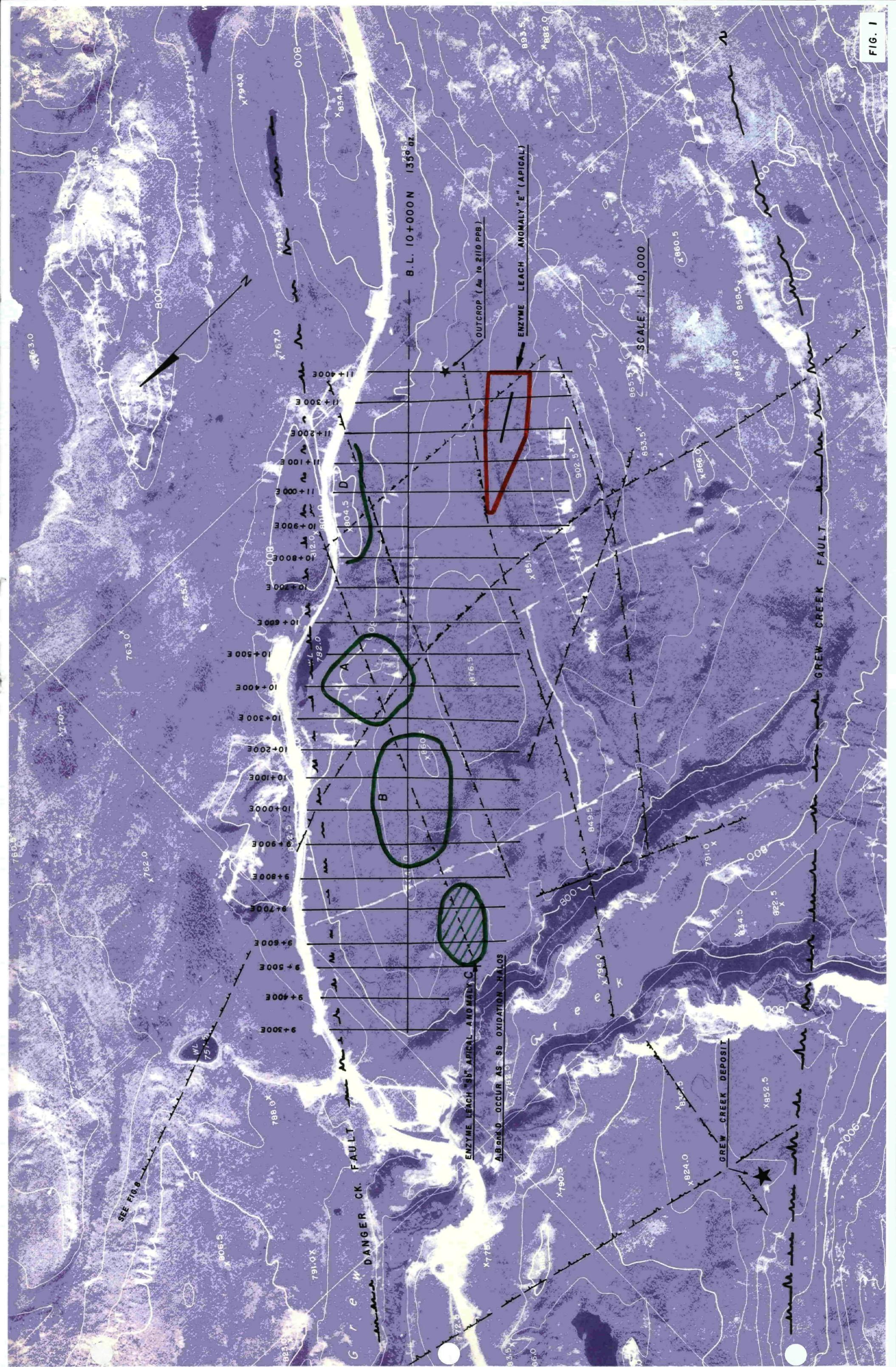
Becoming somewhat perturbed regarding the validity of the Enzyme Leach anomaly, we decided to drill CGGC 4, for the following reasons:

1. Conventional soil geochemistry had determined an anomalous centre in Au (fig.3) as well as Hg, Ba, Cu and Mn.
2. The hole would intersect a lengthy magnetic feature trending in an east - west direction.
3. We would still be within the confines of anomaly E.
4. The area north of hole 95-172 would be tested, where anomalous pyrite and Au occurred in the upper section (fig.3). At this point in time the consensus was that any mineralized zone would likely have a northeasterly dip.

## CONCLUSIONS

The hydrothermal breccia was found some distance to the west of a more intense portion of Enzyme Leach anomaly E (fig.3). This latter sector may indicate the presence of an underlying centre of mineralization, hosted within a more focused portion of the hydrothermal system (central vent). Encouraging also is that the Enzyme Leach approach appears to be working. Yet to be tested are 4 other similar anomalies in the vicinity (fig.1 and fig.2).

In closing, it is very fortunate that hole 4 was drilled and the presence of hydrothermal brecciation determined. Without that evidence, one might be less likely to be aggressive in a drilling campaign. Unfortunately, this information was available from DDH 95-172 – 6 years past – where, from a reading of the logs in hindsight, it appears that hydrothermally brecciated material was logged as (HVB) Heterolithic Volcanic Breccia. A critical distinction!



SEE FIG. 1

A,B,C,D, and E = ENZYME LEACH ANOMALIES



FIG. 2

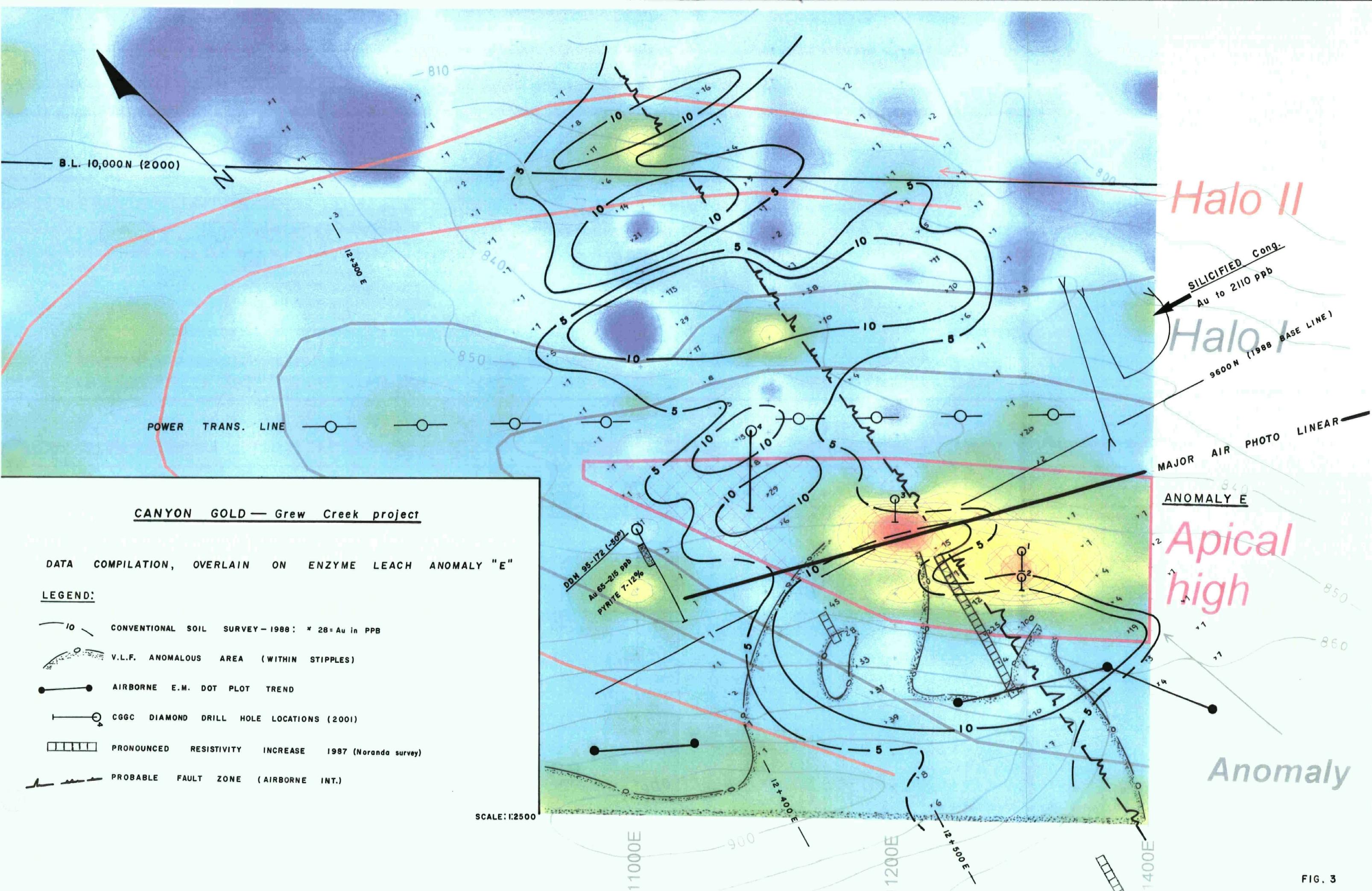
Carlos Gold — Grew Creek project

Enzyme Leach grid location (2000)

NTS 105 K-2

JAN. 8 - 2001

SCALE: 1 CM = 82M. approx.



## **APPENDIX 1**

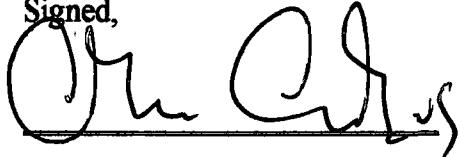
### **STATEMENT OF QUALIFICATIONS**

#### **ALLEN M. CARLOS, PROSPECTOR**

I, Allen M. Carlos of Whitehorse, Yukon Territory, hereby certify that:

1. I have been actively engaged as a mineral prospector in Western Canada for 35 years, initially for a major company, then as an independent.
2. I studied 3 years at the University of Saskatchewan:  
One year of Engineering followed by 2 years Arts and Science (Geology).
3. I worked one year in northern Saskatchewan as a student assistant for the Department of Mineral Resources.
4. I have for the last 18 years spent much time researching papers regarding Volcanic Hosted Epithermal type deposits.
5. In 1983 I was responsible for discovering the Grew Creek precious metal deposit, the first epithermal deposit of this type along the Tintina Trench in Yukon.
6. I planned and with the aid of my sons, carried out the current program.

Signed,



Allen M. Carlos, PROSPECTOR

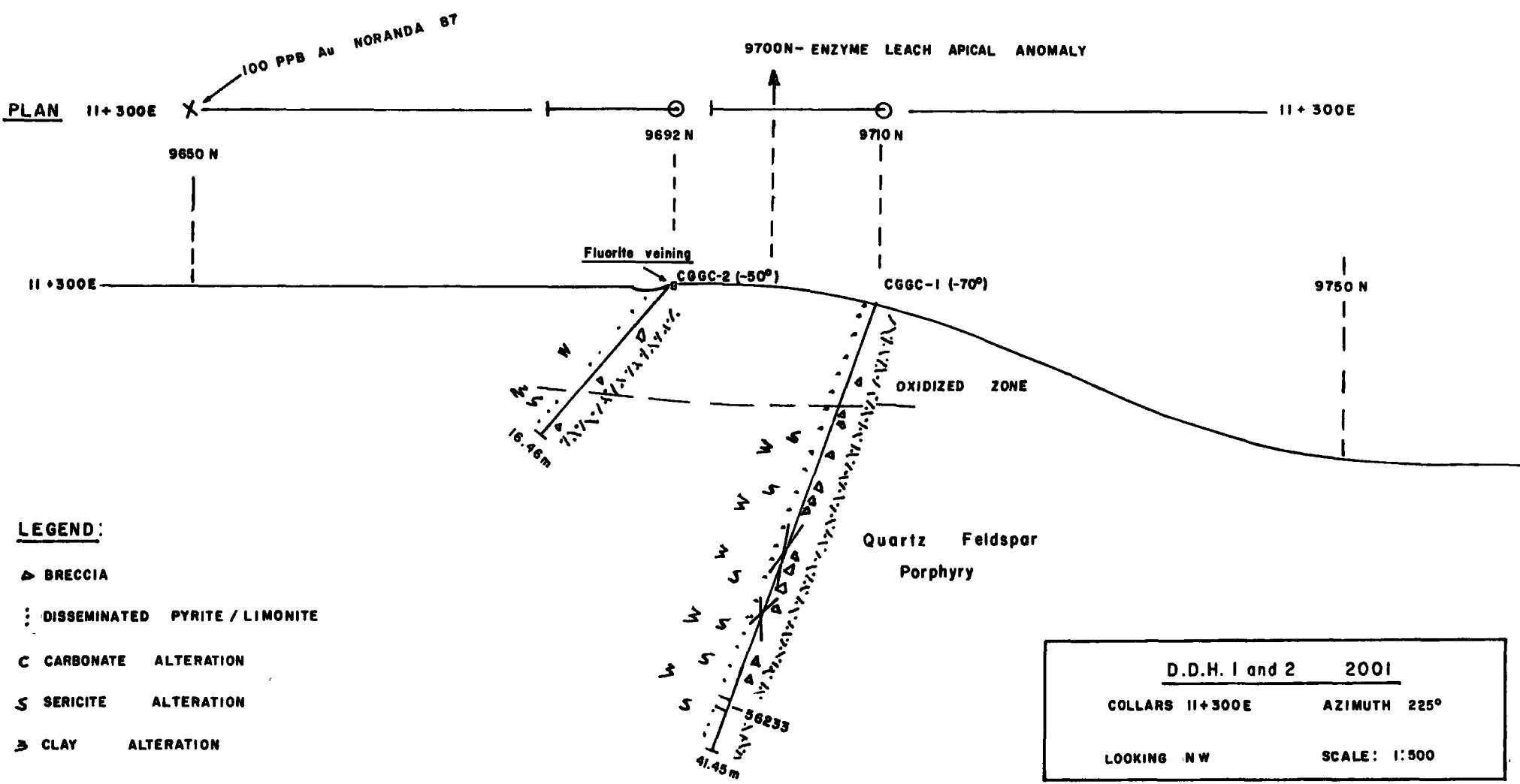
January 15, 2002

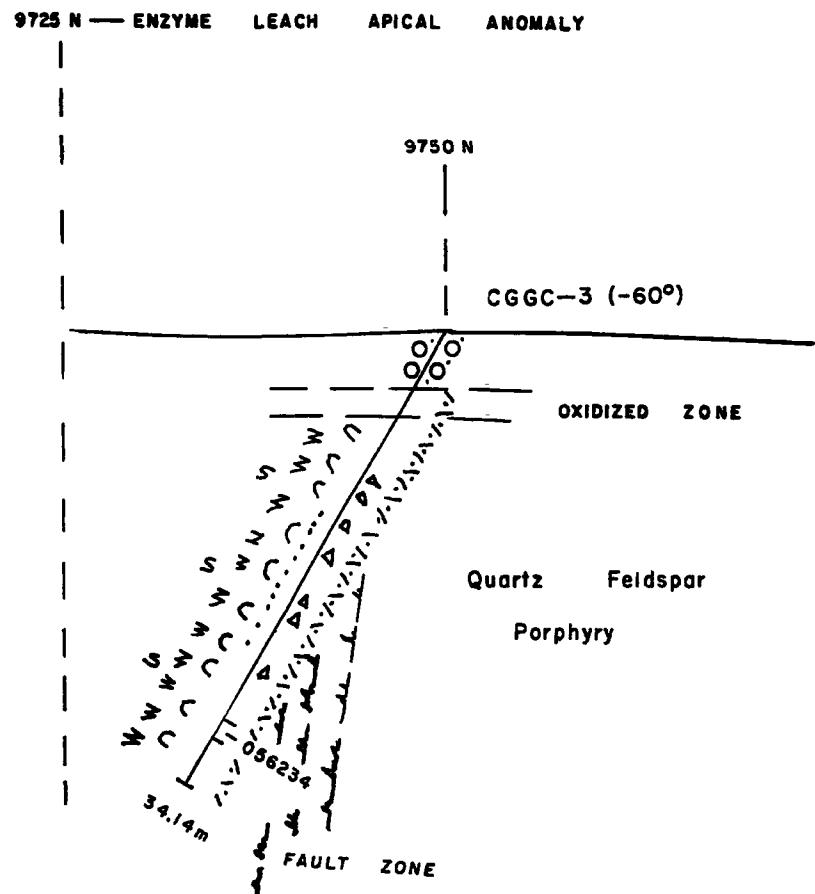
## **APPENDIX 2**

### **DIAMOND DRILL HOLE CROSS SECTIONS**

#### **2001 DRILL PROGRAM**

X  
225 PPB Au Noranda 88





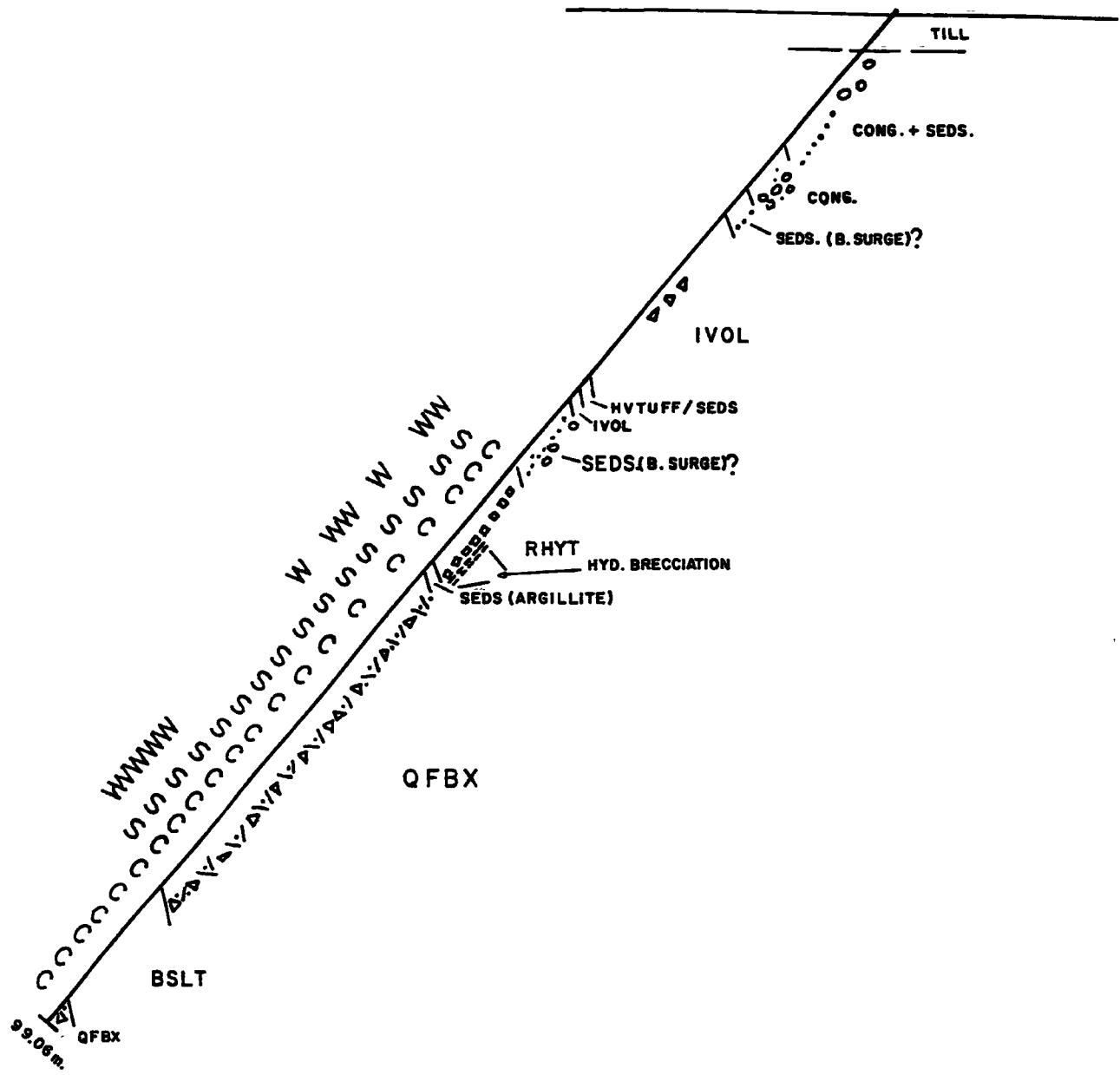
LEGEND:

- △ BRECCIA
- ◊ DISSEMINATED PYRITE / LIMONITE
- CARBONATE ALTERATION
- SERICITE ALTERATION
- ✖ CLAY ALTERATION

D.D.H. No. 3 — 2001	
COLLAR II+200E    AZIMUTH 225°	
LOOKING NW    SCALE: 1:500	

98+000N

CGGC-4(-50°)



LEGEND:

- △ BRECCIA
- :: DISSEMINATED PYRITE
- C CARBONATE ALTERATION
- S SERICITE ALTERATION
- W CLAY ALTERATION

D.D.H. No. 4 — 2001

COLLAR 11+085E AZIMUTH 225°

LOOKING NW SCALE: 1:500

## **APPENDIX 3**

### **DIAMOND DRILL HOLE DESCRIPTIVE LOG**

## **GREW CREEK PROJECT**

### **DIAMOND DRILL HOLE LOGS**

#### **GEOLOGIC AND ALTERATION LEGEND**

##### **PLEISTOCENE**

**OVBN** Overburden: poorly sorted, clay rich glacial till; numerous exotic boulders rounded to sub-angular in clay rich matrix. Or, preglacial gravel; rusty weathered sandy to pebbles of exotic composition recoveries very poor. Or, carbonaceous black organic deposits; locally coal beds at deeper levels.

##### **EOCENE**

**SEDS** Fluvial sedimentary rocks: moderately to poorly consolidated interbedded sandstone, conglomerate, argillite and coal. Light grey to black, moderately to poorly sorted sandstone and polymictic conglomerate with gradational contacts. Conglomerate is clast supported with sandy matrix. Sandstone massive to graded bedding and locally cross bedded. Argillite is fissile black mudstone to coaly deposits. Thin beds within the clastic graded sequence.

**TUFF** Felsic crystal tuff: otherwise identified as:

RHYT: felsic crystal or ash tuff with variable lithic or lapilli clasts.

S&P TUFF: salt and pepper texture of non-welded rhyolite crystal lithic tuff. Lithic clasts of uniform size ranging from 1-3 mm in crystal matrix.

CLP TUFF: rhyolite crystal lithic or lapilli pumice tuff. Distal facies poorly sorted with minor lapilli clasts predominant lithic clast and crystal tuff matrix. Proximal facies predominantly lapilli rhyolite and pumice fragments with minor dark crystal matrix.

WELDED RHYT: welded CLP tuff. Creamy grey to green pseudo-porphyry with rounded and broken white to grey "phenocryst" of calcite or rhyolite.

**RHY** RHYOLITE: massive fine grained grey rhyolite. Partially brecciated. Other types as follows:

	RHYX:	rhyolite breccia.
	RHYP:	rhyolite "quartz eye" porphyry. Smoky grey quartz phenocryst in fine grained creamy to white groundmass.
	QPOR:	quartz porphyry. As RHYP with larger more prominent quartz phenocryst.
	FPOR:	feldspar porphyry. Grey euhedral feldspar phenocryst in fine grained grey groundmass.
	QFP:	quartz feldspar porphyry. Grey quartz eye and feldspar phenocryst in creamy white groundmass.
IVOL	INTERMEDIATE VOLCANICS:	dark grey green lithic and lapilli tuff and tuff breccia. AND: fine grained massive andesite flow rocks. Occasionally porphyritic or amygdaloidal.
MVOL	MAFIC VOLCANICS:	dark green to black locally chloritized mafic tuff and tuff breccia.  BSLT: fine grained massive to porphyritic dark green basalt flow or dyke.
DIABASE	DIABASE/MICROGABBRO/DIORITE:	equigranular fine to medium grained mafic intrusive rocks. Composed of plagioclase grains and 20-40 % amphibole crystals.
CONG	CONGLOMERATE:	very resistant, strongly lithified quartz pebble conglomerate. Massive bedded with interbeds of SST - sandstone and ARG - argillite. Conglomerate is clast supported with rounded to sub-angular clasts of quartz, sandstone, siltstone and rare volcanic and metamorphic rocks. Interbeds of coarse sandstone are gradational quartzose beds of medium thickness. Siltstone beds are black carbonaceous.
PALAEOZOIC		
CPHY	CHLORITIC SHEAR:	well foliated heterolithic brecciated shear zone with chlorite rich matrix.
FLT	FAULT ZONE:	coarse heterolithic breccia in black carbonaceous clay matrix in conglomerate sequence or clay seams in volcanic rocks.

## ALTERATION CODES:

S	SILICIFICATION:	W - weak, patchy M - moderate, along vein margins P - pervasive																								
A	ARGILLIC:	Ac - acid leaching F - feldspars selectively altered to clay P - pervasive clay altered																								
C	CARBONATE	W - weak, patchy local calcification M - moderate calcite of matrix or calcite altered "phenocrysts" P - pervasive alteration of matrix and calcite "phenocrysts". S - strong, highly effervescent with HCl.																								
Se	SERICITE	W - weak, patchy green alteration M - moderate alteration P - pervasive, bright green smectite alteration																								
Py	PYRITE	<table border="0"> <tbody> <tr> <td>Percentage</td> <td>Tr</td> <td>trace</td> </tr> <tr> <td>1</td> <td></td> <td>1 - 3 %</td> </tr> <tr> <td>2</td> <td></td> <td>3 - 5 %</td> </tr> <tr> <td>3</td> <td></td> <td>5 - 10 %</td> </tr> <tr> <td>4</td> <td></td> <td>10 - 20 %</td> </tr> <tr> <td>5</td> <td></td> <td>20 - 40 %</td> </tr> <tr> <td>Type</td> <td>D</td> <td>disseminated</td> </tr> <tr> <td></td> <td>S</td> <td>stringer</td> </tr> </tbody> </table>	Percentage	Tr	trace	1		1 - 3 %	2		3 - 5 %	3		5 - 10 %	4		10 - 20 %	5		20 - 40 %	Type	D	disseminated		S	stringer
Percentage	Tr	trace																								
1		1 - 3 %																								
2		3 - 5 %																								
3		5 - 10 %																								
4		10 - 20 %																								
5		20 - 40 %																								
Type	D	disseminated																								
	S	stringer																								
Qv	QUARTZ VEINS	Number of veins or stringers.																								
T	Type or Total Alteration Classification	<table border="0"> <tbody> <tr> <td>Ph</td> <td>phyllitic</td> </tr> <tr> <td>QA</td> <td>quartz-adularia</td> </tr> <tr> <td>A</td> <td>argillic</td> </tr> <tr> <td>W</td> <td>clay weathering</td> </tr> <tr> <td>L</td> <td>local</td> </tr> <tr> <td>M</td> <td>moderate</td> </tr> <tr> <td>I</td> <td>intense</td> </tr> </tbody> </table>	Ph	phyllitic	QA	quartz-adularia	A	argillic	W	clay weathering	L	local	M	moderate	I	intense										
Ph	phyllitic																									
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A	argillic																									
W	clay weathering																									
L	local																									
M	moderate																									
I	intense																									
CR	Core recovery in %																									
Struct. Int.	Fracture intensity of core: degree of broken core from 0 - continuous whole core piece to 10 - no whole core pieces recovered.																									

## GREW CREEK PROJECT

## DIAMOND DRILL LOG

Hole No: CGGC - 1	Grid:	Claim:	Page 1 of 4
Depth: 41.45 m.	Coordinates - Northing 9710N	Bearing: 225° Az	Date Started:
Angle: -70°	- Easting: 11 + 300E	Elevation:	Date Completed:
Core Size: BQ	Dip Tests:	Drilled by: A. CARLOS	Logged By: Robert STROUSEN

Footage From (m)	To (m)	Rock Type	Alteration							Assays					% RCVRY	Description
			S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm	
0.00	1.22	OVBN														No Recovery.
1.22	11.00	QFP OXIDIZED ZONE														85-90% Quartz feldspar porphyry B. Grey greyish "eye" phenocrysts 1-3mm and pale buff feldspar phenocrysts/ rectangular to sub-rounded in pale grey green ground mass light orange brown weathering. Noticeable on feldspar phenos. fine brown weathering fractures in oxidized zone sub-parallel to acute angle to CA.
11.00	41.45	QFP	WT	W TR												8.50m - fractures with pale orange fine clay seams @ 30° CA.
																Qtz-feldspar porphyry. Grey Qz "eye" phenos 1-4mm and white to pale buff irregular feldspar phenocrysts in pale grey-green groundmass. Feldspar phenos up to 10%. Smoctite on fractures or in scattered irregular patches. Feldspar phenos - moderately argillized TR-1% dms py/mineral grains

Footage		Rock Type	Alteration						Assays					% RCVRY	Description		
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
			W-		W	TR				11.00	12.50	1.50	:	-	-	97%	Qfp - fractured BRx core. Irregular fractures with white clay. Dornment fractures are sub-parallel to acite
			W-		TR	TR				12.50	14.90	2.50		-	-	8	
			W-		W	TR				14.90	21.05	6.15		-	-	99%	Qfp. solid pgs & core up to 35cm
			W-		W	TR								-	-	6	12.70m clay filled fractures @ 20° CA other fractures from 30 - 60° CA.
			W-		W	TR								-	-	6	Qfp.
			W-		W	TR								-	-	6	Broken core in fracture zones with white sandy clay and weathering @
			W-		W	TR								-	-	10	14.90 - 15.55m
			W-		W	TR								-	-	10	17.90 - 18.60m
			W-		W	TR								-	-	10	19.90 - 21.05m
			W-		TR	I				21.05	24.05	3.0		-	-	100%	Qfp. dms py/cinnomite
			W-		TR	I								-	-	5	21.25m - fine fracture with staining py @ 32° CA
			W-		TR	I								-	-		clay filled (fine) fracture @ 10° Cat 21.5t 22.15 - 22.25m Broken Core
			W-		TR	I								-	-		Fractures Cat < 40°
			W		W	TR				24.05	25.00	0.95		-	-	100%	Fracture zones in Qfp
			W		W	TR								-	-	8-9	Sub-parallel fractures - 10°. Cat.

Hole No. CGGC-1

Page No. 3 of 4

Hole No. CGGC-1

Page No. 4 of 4

## GREW CREEK PROJECT

## DIAMOND DRILL LOG

Hole No: CG-GC-2	Grid:	Claim:	Page 1 of 2
Depth: 16.46 m	Coordinates - Northing 9692N	Bearing: 225° Az	Date Started:
Angle: -50°	-Easting: 11+300 E	Elevation:	Date Completed:
Core Size: BQ	Dip Tests:	Drilled by: AL CARLOS	Logged By: ROBERT STRASHEIN

Footage From (m)	To (m)	Rock Type	Alteration							Assays					% RCVRY	Description	
			S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
0.00	1.70	OVBN														0%	No Recovery.
1.70	11.50	QFP OXIDIZED														97%	ORANGE BROWN WEATHERING QZ-feld porphyry. Grey smoky QZ "eye" white to light brown feldspar phenocrysts in light grey green f.g. groundmass. QZ "eyes" up to 8 mm elongate Feldspars - angular to sub-round buff angular phenocrysts up to 14 mm long. Disseminated limonite grains from pyrite.
																	Weathering decreases down hole.
																	3.80m - 40cm clay and BRx zone 10° CA on upper contact. 36° CA on lower contact.
																	8.75-10.00m - BRx zone clay matrix weathered Upper CN 27° CA.

Hole No. CGGC-2

Page No. 2 of 2

## GREW CREEK PROJECT

## DIAMOND DRILL LOG

Hole No.: CGGC-3	Grid:								Claim:						Page 1 of 3			
Depth: 34.14 m	Coordinates - Northing 9750N								Bearing: 225° Az						Date Started:			
Angle: -60°	- Easting: 11 + 200E								Elevation:						Date Completed:			
Core Size: BQ	Dip Tests:								Drilled by: A. CARLOS						Logged By: R. STROTHEN			
Footage	From (m)	To (m)	Rock Type	Alteration							Assays					% RCVRY	Description	
				S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
0.00	4.57	0.00	QFBn														Overburden no recovery.	
4.57	6.00	QFP															99% Quartz-feldspar porphyry 7 Surface oxidized zone. Wkly BRx, ORN-BRN weathered	
6.00	34.14	QFP															Grey QZ "eye" - buff to light brown feldspar pheno crystals in creamy grey green f.g. groundmass. DISS Py/lim is rare.	
			WW TR					6.00	10.85	4.85							100% Smectite along fractures	
																	4-5 Fractures at acute angles 10-15° or 40-60° Predominantly shallow CA carbonate alt" of feldspar phenos	
			WW TR					10.85	25.00	14.15							98% FAULT ZONE	
																	4-7 10.90m - 11.40m sub-parallel fracture/BRx with dark grey clay in fill.	
																	11.82m - clay filled fracture @ 27° Cat	
																	12.20m - 12.45m - fracture/BRx sub parallel fracture	

Footage		Rock Type	Alteration							Assays					% RCVRY	Description	
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
													:			14.65m - clay filled fractures BRx + CN	
													-	-		15.25m - 2cm Clay filled Fracture (w/ 12° CA)	
													-	-		15.35 - 15.75m. clay filled BRx. Upper CN @ 33° CN Lower CN @ 30° CA.	
													-	-		16.25 - 16.45m - BRx	
													-	-		18.40 - 18.65m - BRx lower CN sharp CN with dark grey silicified zone @ 18° CN (weak)	
													-	-		19.10 - 19.20m - clay in BRx	
			W	W	TR	TR				14.60	24.0						19.75m - 2cm seam @ 18° CA hard green fill.
							Lim										20.60m - clay seam @ 10° CA
																	21.90 - 22.30m - Fault BRx with dark green matrix and pale green clay. irregular CN > @ 15° CA.
																	24.25m - med green clay seam @ 18° CA
																	25.00 - 25.35m. clay rich (weathered) fac BRx.

Hole No. CGGC-3

Page No. 3 of 3

## **GREW CREEK PROJECT**

## **DIAMOND DRILL LOG**

Hole No.: CGGC-4	Grid:	Claim:	Page 1 of 14						
Depth: 325' - 99.06 m.	Coordinates - Northing 9800 N - Easting: 111085E	Bearing: 225° Az	Date Started:						
Angle: -50°		Elevation:	Date Completed:						
Core Size: 3.4	Dip Tests:	Drilled by:	Logged By: Robert Strohman						
Footage	From (m)	To (m)	Rock Type	S A C Se Py Qv T	Alteration	Assays	% RCVRY	Description	
0.00	5.64	OVBN				From (m) To (m) Width (m) Sample No.	Au ppb Ag ppm		0-2.74m No recovery
						2.75 3.00 0.25	56151		2.74-3.08 Orange Brown clay clay w/ frags
									3.08-5.64m Qfp frags -clay seams Sed frags mudstone and
5.64	5.85	OVBN					90%		Light grey muddy matrix rich fine clay altered frags, coarse - fine argillite frags
5.85	6.13	SEDS					50%		black fine grained mudstone - argillite finely banded
							10		Core is intensely broken Possibly large boulder in OVBN
6.13	8.70	OVBN					70%		Glacial till Silty dark grey matrix w/:
							6-7		frags/clasts ranging from mm - 12cm. Poorly consolidated frags - Qfp QPOR SEDS

Hole No. CGGC - 4

Page No. 2 of 14

Footage		Rock Type	Alteration						Assays						% RCVRY	Description	Page No. 2 of 14
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
8.70	11.92	SEDS	-	-	-	-	-	-	-	-	-	-	-	-	85%	Moderately well consolidated conglomerate with interbedded micaceous mudstone. Clasts - FPOR, CHERT, ARG, QFP, Gritty dark grey matrix. Micaceous mudstone @ 10.60 - 10.81m.	
															4	ca 55° @ 10.60m 40° @ 10.81m includes coarse frags @ 11.42 - 11.63m.	
															ca 52° @ 11.42m 53° @ 11.63m		
																55m parting (laminated)	
11.92	17.35	CONG SEDS	-	-	-	-	-	-	-	-	-	-	-	-	98%	Light grey QZ pebble conglomerate. Moderately well consolidated - Competent matrix. Variably clast or matrix supported. Frags QZ, CHT, ARG, GNEISS, (VOLC) rare. Porphyry, COAL (15.20m) (16.40m) 16.90 - 17.08m. - micaceous bioclastic mudstone finely laminated Ca @ 64° Contact irregular & Ca 55° 12.37m - 3cm wth brown frgy mud scan 85° CA.	

Footage		Rock Type	Alteration							Assays					% RCVRY	Description	
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
17.35	19.55	SEDS														98%	Dark grey to black fine-silty grained micaceous mudstone with coarse poorly sorted SST and conglomerate intervals
																5-6	Upper Contact @ 50° CA Lower contact @ 55° CA lamina 52° CA @ 18.17m cross bedding @ 18.30m
																	Coarse frags in grey brown matrix Cong at lower CN ALTN ZONE AT CONTACT (SAMPLE)
19.45	20.05	0.50	56152													100%	
19.55	34.40	I VOL														7	ANDESITE Flow - massive dark green with fragmental tuff sections.
																100%	
																3-4	abundant white Calcite stringers at variable core angles. 21.60m - 1.5cm @ 5° CN 25.0 - 29.40 m
																95+	
																9	strongly fracture - chlorite on fracture surfaces with S-Cpx + Fe fractures generally at very low core angles sub-parallel to core axes others @ 45°, 35°, 85°
																	At upper contact 10cm band of pale tan bleaching gradual decrease in intensity
																	23.0 m silikenside at 82° rake on surface 85° CA
																	24.90 m - silikensides raked 45° on fracture CA @ 35°
																	20m - multiple fine calcite veins bnded 35° CA

Footage		Rock Type	Alteration							Assays					% RCVRY	Description	
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
																	28.75m - 10° CA on fracture slickens at 12° <sup>roster</sup>
																	29.75m 20° CA on fracture slickens @ 85°
																	27.65m 15° CA on fracture slickens @ 10° <sup>roster</sup>
																	28.15m 55° CA on fracture slickens @ 8° <sup>roster</sup>
																	28.72m BND calcit vnlst @ 50° - 1cm
																	100% 29.40 - 34.40m. ANDESITE fracture mtns. 5 much lower than previous section.
																	ANDESITE THROUGHOUT has fine irregular black bld (?) grains Locally porphyritic texture
																	33.05 - 34.40m. ABUNDANT CALCITE VNLTS, strgs. and irregular masses 5%
																	CA @ 10° - 60°
																	Wd dark brown colored sulfide zones at lower CN
																	8 CN - CA 45° fg. porphyritic texture Note calcite vnlts, irregular masses, broken vnlst frags and wavy stringers
34.40	35.60	HTUF															100 Heterolithic tuff. Coarse Volcanic fragm. in XAL MATRIX Lapilli tuff. Lapilli of QPOR. RHY SEDS. Lower CN 40° CA.
34.40	35.60	1.20	56154														
35.60	35.85	SEDS															Micaceous "COALY" siltstone. Black siltstone frags. Irregular polished shears CN's irregular

Footage		Rock Type	Alteration						Assays						% RCVRY	Description	
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
35.85	37.60	VOL														100%	Light grey green intermediate volcanic 9 weakly Brecciated Irregular contacts approximately 45° CA Black irregular frags carbonaceous argillite lower contact. White calcite masses along brx openings
37.60	44.05	SEDS														100%	Poorly bedded dark grey mudcarenous sil. 6 mudstone with conglomerate and rare volcanic tuff breccia interbeds Poorly sorted conglomerate layers: 37.9 - 38.05 m. 38.20 - 38.45 m 42.25 - 42.50 m. 42.60 - 43.40 m Felsic Volc lithic tuff: 38.55 - 38.90 m upper CN 90° cut Black m. lower CN 55° CA Occasional mud seams. Local irregular deformations
44.05	50.90	RHYT	F	W						44.05	45.55	1.50	56155				Nonwelded crystal lithic tuff Grey Brown upper CN 45° CA. Felsic frags with rare coarse QFP clasts Black argillite Pumice frags 45.55 - 46.75 m acid leach zone Fe Carb staining of pumice frags
					Ac					45.55	46.75	1.20	56156				

Footage		Rock Type	Alteration							Assays							Description	Page No. 6 of 14	
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm	% RCVRY			
										46.75	48.0	1.25	56157				49.0 - 49.40 m - 5 broken or discontinuous, calcite strings 50-65°C A.		
										48.00	49.40	1.40	56158						
										W			49.40	50.90	1.50	56159	100%		
																5			
50.90	53.80	HTUF	Ac	M						50.90	52.40	1.50	56160				Heterolithic volcano tuff Lapile frags		
																5-6	QFP, RHY, PUM		
		MUD SEAM								52.25	53.65	0.80					Upper CN - 30°C A		
		SHEAR?								52.40	53.30	1.40	56171				Lower CN - 65°C A		
																Mud			
53.80	54.55	SEDS								53.80	54.55	0.75	56172				Black fg ARGILITE - Interseis, fractured sheared.		
																Upper CN - 62°C A			
																Lower CN - 35°C A			
54.55	56.35	QFBX	Ac	W	W					54.55	55.50	0.95	56161				Breccia, Hydrothermal Coarse intensity of Bx.		
																QFP with variable degrees of dark grey fine grained siliceous matrix			
																Rare volcanic fragments in Breccia matrix			
																Ivol with calcite "phenocrysts", QDPOR			
																Qfp - grey quartz "eye" phenocrysts sub-rounded to elongate 1-4mm. Feldspar OR Bn irregular.			
																55.50 m - fracture clay seam @ 55°C A 2mm white clay seams 2-4mm			
										Ac	W	W	1	55.50	57.00	1.50	56162	100%	56.05m - 35°C A 6mm
																56.25m, 48°C A			
																Qz vrn frag 56.52m			

Footage		Rock Type	Alteration						Assays						% RCVRY	Description	
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
																3 matrix rich zones. 55.65 - 56.00 m. 56.20 - 56.50 m. 56.85 - 57.00 m.	
		TR TR								57.00	58.50	1.50	56163	100			matrix zones: 57.3 - 57.45 m. 20% 57.55 - 57.80 m 5%
																	58.05 - 58.32 m. 35% 3mm white clay seam 75° CA 2mm OFNGS 57° 60° Cr
		W -								58.50	62.00	1.50	56164	100			Breccia 58.15 - 60.0 m 10-15% MATRIX CA 45° 55° BANDS of MATRIX also irregular masses and sub parallel seams
		TR W								60.00	61.50	1.50	56165	100			BRECCIAS 60.35 - 60.65 m - 20% matrix irregular white clay seams w/smectite & AC ≈ 65° CA
		Az															
		W TR M								61.50	63.00	1.50	56166	100			61.40 - 61.50 m - 10% matrix 2mm BN @ 62 flow banding textures 62.00 - 62.70 m <sup>sub</sup> and 4 BRX
																61.65 - 61.95 m 20% Matrix 62.80 - 62.90 m 35% Matrix Clay Band with smectite @ 62.40 m 6cm @ 30°	
		W - W								63.00	64.50	1.50	56167	100			Near continuous BRX 10-15%
																CA 83° Matrix BN @ 63.3 m white clay seam @ 64.45 m. 3mm. 60° CA	

Footage		Rock Type	Alteration						Assays						% RCVRY	Description	
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
			W	W-M						64.50	66.00	1.50	56168			100	BRx
																4	-64.70 - 65.40m 10-15% matrix
																	64.50 - 64.70m flow banding textures
																	65.20 m. - 4 cm mass of white Qz in BX M.
																	65.75 - 66.00m pervasive smectite alt with clay rich seams + carb.
			W	w/p						66.00	67.50	1.50	56169			100	BRx 66.20 - 67.00m 4% matrix
																6	sub parallel Bns 3-4cm irregular discordant bns
																	67.00 - 67.50m - Pervasive smectite
			TR	W/M						67.50	69.00	1.50	56170			100	BRx = 67.70 - 68.20m 10% matrix charles
																3-4	68.60 - 69.10 60% matrix massive
																	68.30 - 68.50m - flow band textures
																	67.50 - 67.85 - Pervasive smectite + carbonate
			-	W						69.00	70.50	1.50	56173			100	BRx 69.40 - 70.10m 20%
																5	70.10 - 70.35m - black massive f.g granular tourmaline BX M. 5% volc frags in black matrix
																	Upper CN - Broken ~ 85°C
																	Lower CN 35°C - 2m m white-greenish clay seam on contact
																	70.35 - 70.50m BRx 15% matrix
																	69.70m - wispy light grey QZ frag in BRx

Footage		Rock Type	Alteration					Assays					% RCVRY	Description			
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
		TR W								70.50	72.00	1.50	56174			98%	70.65 - 70.85m BRx 12% grey matrix
																3-4	71.05 - 71.65m BRx 12% massive to dendritic "Swirly" grey matrix, F.G. blocks carbonatitic clayey matrix granular masses (tourmaline) (?) 70.75m, 71.28m, 71.60m. 5-6cm. 71.63m broken vn?
																	71.75 - 72.00m BRx 65% Grey matrix
		W TK								72.00	73.50	1.50	56175			99%	72.20 - 72.40m flow textures? 5
																	BRx 72.20 - 72.25m 10% grey matrix
																	72.70 - 73.50m BRx 15-20% Matrix Intense 73.05 - 73.50m occasional fig. black fragments with amorphous Qz bands (ch?)
		TR/b TR								73.50	75.00	1.50	56176			100%	Intermittent BRx throughout 5-7% matrix 3-4 73.75 - 73.95m - intensely altered "bird's foot" gabbro? with BRx. 74.05m - flow textures 74.85m - flow textures 74.90 - 75.00m - Breccia Band. CA's 35° Fe Carb and Calcite rounded phenos
		W - W								75.00	76.50	1.50	56177			100%	BRx - 75.00 - 76.15m. 7% matrix upper CN 3 75.80m - Flow Band texture @ $\approx 37^{\circ}$ CA 76.00m - 1cm frag of light grey f.g. Qz in Br. 76.15 - 76.50m pseudo-Banded Qfp. with smectite altered intervals < 1cm.

Hole No. CGGC-4

Page No. 109. 14

Footage		Rock Type	Alteration					Assays					% RCVRY	Description	Page No.		
From (m)	To (m)		S'	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
W	- W	Ac								76.50	78.00	1.50	5617A	-	-	100%	Pseudo-banded Porphyry, with green smectite-altered layers. @ 35° CA
														4			76.72 m - 3cm <sup>green</sup> Fluorite with light brown very f.g.: porcellaneous siliceous BN. CA. @ 64°
																	77.20 m - 5mm tg grey QZ stringer @ 28° Cr.
																	77.22 m - green fluorite fragment 2x5cm in Ac. Crush/shear zone. 55° CA on Clay Seam in zone ends 77.37m
																	77.60m - wispy flow textures @ 35-47° Cr
																	77.70m - clay seam on fracture @ 45° CA
																	77.80-78.00m irregular fractures with clay lower CA @ 30°
TR	W	-	Ac							78.00	79.50	1.50	56179			95%	78.00 - 78.30m - Qfp
															7		78.30 - 79.45m Brown altered "Buds foot" porphyry. Upper Cr @ 60° Cr lower Cr @ 40° CA
																	78.40 - 78.90m - fracture zone with clay on irregular fractures. frags of BRX Qfp and "Buds foot".
																	79.20m 8cm BRX zone 50% matrix
																	79.00m Qfp - BRX 20%

Footage		Rock Type	Alteration						Assays						% RCVRY	Description	
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
		TR	W	W						79.50	81.00	1.50	56180			99%	Flow bnd textures throughout interval
															5	Sub-parallel - 50° CA. Minor local fracture with clay veins irregular	
																72.85 - 80.00m BRX 15% matrix "Birds foot" por frag and Qfs. Upper CN @ 45° CA. irregular CN's lower CN @ 40° Col	
																80.15 - 80.75m Variable BRX 10-15% matrix flow textures sub // to Matrix sub // to Col. Heterolithic frags Qfs., pale light green volc	
		TR	W							81.00	82.50	1.50	56181			99%	Variably BRX - 5-7% matrix Heterolithic
			Ac												5	frag's 81.5 - 82.0 m - irregular fractures - Col and Ac.	
			W TR							82.50	84.00	1.50	56182			99	BRX variably 75% section matrix 5-7% 5 Heterolithic clasts "Birds foot" por, calc. angulars in volc, pale green a.e. volc, Qfs Coarse light-med grey f.g "chart" frags 2x2cm at 83.25m.
																Clay or irregular fractures 83.0 - 83.5m	
		TR	M TR							84.00	85.50	1.50	56183			100	Heterolithic BRX Semi Continuous
															4-5	- Matrix 12-15%	
																84.10 - 84.60 m - irregular discontinuous fractures with clay	

Footage		Rock Type	Alteration							Assays						% RCVRY	Description	Page No.
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm			
		M. P								85.50	86.35	0.85	56184			96%	Heterolithic BRX 85.50 - 85.95m Matrix	12 of 14
																4	70° CA @ 85.95m	
																-	35.95m-86.25m - intense pervasive altered green smectite zone Grey & grey as remnants.	
																-	lower contact 86.35m 3cm clay/iron seam core grained but remnant streaks 90° CA. -	
86.35	97.25	BSLT															Medium Green fine grained massive basalt. Altered strongly to dark brown with coarse calcite "amygdalites" 1m - 10mm occasional few calcite strings	
		MJOL																
		TR	M							86.35	87.85	1.50	56185			100%	Dun altered BSLT (M VOL)	
																4-5	Coarse calcite "amygdalites" angular up to 10% "	
																	86.95 - 87.40m BRX siliceous medium grey matrix irregular for 5cm bn @ 87.40m @ irregular CN.	
			M							87.85	89.55	1.70m	56186			100%	Dun altered BSLT Coarse Calcite	
																3	"amygdalites" 7-10%	
																	88.3 - 88.9m BRX light grey matrix	
																	5% Blotchy to Dendritic distribution	

Footage		Rock Type	Alteration					Assays					% RCVRY	Description			
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
		P								89.55	91.20	1.65	56187			100%	Weakly altered BSLT. Gradational changes with f.g. med. green 2-3% fine white calcite strags or bio. bns.
		P								91.20	92.70	1.50	56188			100%	Moderately altered DUN coloured BSLT with calcite "amygdules" increasing down section.
		P								92.70	94.20	1.50	56189			95%	DUN Altered BSLT with calcite "amygdules" and local 1mm Black "irised" eyes siliceous.
		P														93.50m - mud seam 3cm @ 62° CA	
		P														93.60m - 6cm BRX BN. 25% Dark grey matrix with light Brown porcellanous mass containing White calcite swirls. BNS.	
		P														93.50 - 94.20m Clay rich fractures sub   with calcite	
		P								94.20	95.70	1.50	56190			95%	Dun altered BSLT with calcite "amygs"
		P														5-6 94.20 - 95.10m Broken irregular fracture zones with Calcite med and brown porcellaneous frags.	
		P														94.80m - grey siliceous amorphous mass 0.5-1cm grey matrix	

Hole No. CGC-4

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## **APPENDIX 4**

### **ANALYTICAL RESULTS**

**CGGC – 1: 056233  
CGGC – 3: 056234  
CGGC – 4: 056151-056192**



# ALS Chemex

Aurora Laboratory Services Ltd

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: CARLOS, ALLEN

275 ALSEK RD.  
WHITEHORSE, YT  
Y1A 4T1

A0128210

## CERTIFICATE

A0128210

(TFI) - CARLOS, ALLEN

Project:  
P.O. #: CANYON GOLD

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 16-NOV-2001.

## SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
3290	84	Ring 2000 g to approx -150 mesh
STO-21	84	Reject Storage-First 90 Days
LOG-22	84	Samples received without barcode
CRU-31	84	Crush to 70% minus 2mm
SPL-21	84	Splitting Charge

\* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

## ANALYTICAL PROCEDURES 1 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
WEI-21	84	Weight of received sample	BALANCE	0.01	1000.0
Au-AA24	84	Au ppb: Fuse 50 g sample	FA-AAS	5	10000
Ag-MS41	84	Ag ppm: ICP + ICP-MS package	ICP-MS/ICP	0.01	100.0
Al-MS41	84	Al %: ICP + ICP-MS package	ICP	0.01	15.00
As-MS41	84	As ppm: ICP + ICP-MS package	ICP-MS/ICP	0.1	10000
B-MS41	84	B ppm: ICP + ICP-MS package	ICP	10	10000
Ba-MS41	84	Ba ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
Be-MS41	84	Be ppm: ICP + ICP-MS package	ICP	0.05	100.0
Bi-MS41	84	Bi ppm: ICP + ICP-MS package	ICP-MS/ICP	0.01	10000
Ca-MS41	84	Ca %: ICP + ICP-MS package	ICP	0.01	15.00
Cd-MS41	84	Cd ppm: ICP + ICP-MS package	ICP-MS/ICP	0.01	500
Ce-MS41	84	Ce ppm: ICP + ICP-MS package	ICP-MS	0.02	500
Co-MS41	84	Co ppm: ICP + ICP-MS package	ICP-MS/ICP	0.1	10000
Cr-MS41	84	Cr ppm: ICP + ICP-MS package	ICP	1	10000
Cs-MS41	84	Cs ppm: ICP + ICP-MS package	ICP-MS	0.05	500
Cu-MS41	84	Cu ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
Fe-MS41	84	Fe %: ICP + ICP-MS package	ICP	0.01	15.00
Ga-MS41	84	Ga ppm: ICP + ICP-MS package	ICP-MS/ICP	0.05	10000
Ge-MS41	84	Ge ppm: ICP + ICP-MS package	ICP-MS	0.05	500.0
Hf-MS41	84	Hf ppm: ICP + ICP-MS package	ICP-MS	0.02	500.0
Hg-MS41	84	Hg ppm: ICP + ICP-MS package	ICP-MS/ICP	0.01	10000
In-MS41	84	In ppm: ICP + ICP-MS package	ICP-MS	0.005	500.00
K-MS41	84	K %: ICP + ICP-MS package	ICP	0.01	10.00
La-MS41	84	La ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
Li-MS41	84	Li ppm: ICP + ICP-MS package	ICP-MS	0.1	500
Mg-MS41	84	Mg %: ICP + ICP-MS package	ICP	0.01	15.00
Mn-MS41	84	Mn ppm: ICP + ICP-MS package	ICP	5	10000
Mo-MS41	84	Mo ppm: ICP + ICP-MS package	ICP-MS/ICP	0.05	10000
Na-MS41	84	Na %: ICP + ICP-MS package	ICP	0.01	10.00
Nb-MS41	84	Nb ppm: ICP + ICP-MS package	ICP-MS	0.05	500.0
Ni-MS41	84	Ni ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
P-MS41	84	P ppm: ICP + ICP-MS package	ICP	10	10000
Pb-MS41	84	Pb ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
Rb-MS41	84	Rb ppm: ICP + ICP-MS package	ICP-MS	0.1	500
Re-MS41	84	Re ppm: ICP + ICP-MS package	ICP-MS	0.001	50.0



# ALS Chemex

Aurora Laboratory Services Ltd

Analytical Chemists \* Geochemists \* Registered Assayers  
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 PHONE: 604-984-0221 FAX: 604-984-0218

To: CARLOS, ALLEN

275 ALSEK RD.  
 WHITEHORSE, YT  
 Y1A 4T1

A0128210

Comments: ATTN: ALLEN CARLOS

## CERTIFICATE

A0128210

(TFI) - CARLOS, ALLEN

Project: CANYON GOLD  
P.O.#:Samples submitted to our lab in Vancouver, BC.  
This report was printed on 16-NOV-2001.

## SAMPLE PREPARATION

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
3290	84	Ring 2000 g to approx -150 mesh
STO-21	84	Reject Storage-First 90 Days
LOG-22	84	Samples received without barcode
CRU-31	84	Crush to 70% minus 2mm
SPL-21	84	Splitting Charge

\* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

## ANALYTICAL PROCEDURES 2 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
S-MS41	84	S %: ICP + ICP-MS package	ICP	0.01	10.00
Sb-MS41	84	Sb ppm: ICP + ICP-MS package	ICP-MS/ICP	0.05	10000
Sc-MS41	84	Sc ppm: ICP + ICP-MS package	ICP-MS/ICP	0.1	10000
Se-MS41	84	Se ppm: ICP + ICP-MS package	ICP-MS	0.2	1000
Sn-MS41	84	Sn ppm: ICP + ICP-MS package	ICP-MS	0.2	500
Sr-MS41	84	Sr ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
Ta-MS41	84	Ta ppm: ICP + ICP-MS package	ICP-MS	0.01	500.0
Te-MS41	84	Te ppm: ICP + ICP-MS package	ICP-MS	0.01	500
Th-MS41	84	Th ppm: ICP + ICP-MS package	ICP-MS	0.2	500
Tl-MS41	84	Tl %: ICP + ICP-MS package	ICP	0.01	10.00
Tl-MS41	84	Tl ppm: ICP + ICP-MS package	ICP-MS/ICP	0.02	10000
U-MS41	84	U ppm: ICP + ICP-MS package	ICP-MS/ICP	0.05	10000
V-MS41	84	V ppm: ICP + ICP-MS package	ICP	1	10000
W-MS41	84	W ppm: ICP + ICP-MS package	ICP-MS/ICP	0.05	10000
Y-MS41	84	Y ppm: ICP + ICP-MS package	ICP-MS	0.05	500.0
Zn-MS41	84	Zn ppm: ICP + ICP-MS package	ICP	2	10000
Zr-MS41	84	Zr ppm: ICP + ICP-MS package	ICP-MS	0.5	500



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275 ALSEK RD.  
WHITEHORSE, YT  
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Page Number : 1-A  
 Total Pages : 3  
 Certificate Date: 16-NOV-2001  
 Invoice No. : I0128210  
 P.O. Number :  
 Account : TFI

Project: CANYON GOLD  
Comments:

## CERTIFICATE OF ANALYSIS A0128210

SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm
056151	32909402	1.04	< 5	0.58	1.73	9.5	< 10	488.2	1.40	0.09	1.95	0.27	33.4	25.8	32	1.70	25.4	5.02	4.40	0.05
056152	32909402	0.54	< 5	0.54	2.57	1.2	< 10	528.5	1.25	0.04	2.07	0.19	54.8	23.2	75	2.20	29.4	5.44	7.60	0.05
056153	32909402	2.02	< 5	0.40	2.70	1.6	< 10	349.2	1.05	0.01	5.04	0.13	62.1	30.7	93	12.35	33.0	6.14	8.15	0.10
056154	32909402	1.54	< 5	0.30	1.34	5.3	< 10	237.4	1.05	0.10	2.58	0.27	27.2	18.5	34	2.10	23.4	4.65	4.35 < 0.05	
056155	32909402	1.84	< 5	0.31	0.44	2.4	< 10	160.2	1.30	0.20	1.69	0.21	75.3	6.3	9	1.80	13.6	2.74	1.70	0.05
056156	32909402	1.48	< 5	0.32	0.60	9.4	< 10	184.2	2.20	0.15	3.27	0.20	68.3	13.4	12	2.00	25.4	3.81	2.15	0.05
056157	32909402	1.44	< 5	0.30	0.49	1.3	< 10	166.4	1.25	0.27	0.84	0.24	89.1	4.2	8	1.35	7.0	2.52	2.15	0.05
056158	32909402	1.52	< 5	0.24	0.45	0.9	< 10	156.4	1.25	0.26	1.33	0.25	88.2	3.9	7	1.25	6.0	2.56	2.05	0.05
056159	32909402	1.84	< 5	0.20	0.44	1.0	< 10	150.2	1.15	0.25	1.03	0.25	81.2	4.1	8	1.35	6.0	2.59	1.90	0.05
056160	32909402	2.10	< 5	0.24	0.64	1.3	< 10	164.4	1.60	0.10	3.82	0.15	63.6	18.0	24	3.30	48.4	4.91	2.00	0.05
056161	32909402	0.96	< 5	0.26	0.76	10.6	< 10	112.6	2.60	0.28	2.13	0.22	68.4	9.2	12	2.95	23.8	3.43	2.40	0.05
056162	32909402	1.92	< 5	0.58	0.52	4.2	< 10	80.8	2.25	0.23	1.12	0.22	113.5	5.5	4	2.00	17.2	2.26	2.15	0.10
056163	32909402	2.10	< 5	0.45	0.52	12.0	< 10	106.6	3.05	0.25	1.94	0.17	102.0	15.3	12	2.95	17.0	4.56	2.30	0.10
056164	32909402	1.96	< 5	0.46	0.55	16.6	< 10	101.4	2.95	0.26	2.00	0.16	93.1	12.2	14	3.00	16.6	3.62	2.35	0.05
056165	32909402	1.78	< 5	0.42	0.43	3.3	< 10	74.6	1.80	0.34	1.01	0.25	136.5	2.8	2	1.60	10.0	1.84	2.05	0.10
056166	32909402	1.86	10	0.34	0.51	11.4	< 10	73.8	1.90	0.30	1.36	0.25	160.5	3.1	4	1.70	9.8	2.11	2.70	0.15
056167	32909402	1.76	< 5	0.30	0.42	4.8	< 10	70.6	2.10	0.22	1.45	0.17	113.5	6.3	9	1.80	10.0	2.59	2.05	0.10
056168	32909402	1.90	< 5	0.27	0.46	7.8	< 10	77.4	2.70	0.25	1.68	0.23	124.0	6.6	8	2.05	14.0	2.61	2.30	0.10
056169	32909402	1.66	< 5	0.29	0.46	2.2	< 10	71.2	2.60	0.29	1.36	0.26	154.0	1.5	1	2.20	19.6	1.49	2.25	0.15
056170	32909402	1.72	< 5	0.28	0.63	11.2	< 10	169.0	2.35	0.15	3.29	0.19	64.2	15.6	13	2.30	27.8	3.82	2.50	0.05
056171	32909402	1.60	5	0.76	0.56	18.5	< 10	157.4	3.10	0.23	2.96	0.21	50.2	18.8	26	4.15	50.8	4.78	1.75	0.05
056172	32909402	1.06	< 5	0.56	0.55	7.1	< 10	110.0	2.25	0.46	0.37	0.09	20.7	9.0	9	2.65	6.0	2.42	1.90 < 0.05	
056173	32909402	1.72	< 5	0.46	0.41	3.5	< 10	67.2	2.55	0.26	1.57	0.23	112.0	6.7	6	2.30	13.0	2.89	2.05	0.10
056174	32909402	1.54	< 5	0.39	0.32	1.6	< 10	52.0	1.60	0.50	1.07	0.11	114.5	4.6	4	1.60	10.0	2.21	1.70	0.10
056175	32909402	1.80	< 5	0.35	0.33	3.2	< 10	61.2	1.85	0.38	1.30	0.22	112.5	6.2	10	2.10	7.6	2.72	1.85	0.10
056176	32909402	1.76	< 5	0.32	0.41	10.8	< 10	79.6	2.80	0.30	2.35	0.16	105.0	12.5	11	3.50	10.6	3.67	2.00	0.10
056177	32909402	1.62	< 5	0.44	1.28	6.2	< 10	75.4	2.30	0.46	1.24	0.16	93.9	1.6	3	2.55	8.6	1.35	6.25	0.10
056178	32909402	1.48	< 5	0.27	0.41	4.5	< 10	61.2	1.65	0.49	1.08	0.23	130.0	4.0	5	1.70	6.4	2.11	2.20	0.10
056179	32909402	1.74	< 5	0.26	0.50	15.7	< 10	92.6	3.95	0.15	3.26	0.27	76.9	23.5	39	3.75	26.6	5.23	2.10	0.05
056180	32909402	1.80	< 5	0.21	0.36	4.8	< 10	69.6	1.95	0.23	1.30	0.25	118.0	6.7	8	2.45	16.2	2.77	1.95	0.10
056181	32909402	1.76	< 5	0.25	0.42	9.1	< 10	86.2	2.95	0.19	1.95	0.14	101.0	15.3	22	3.75	20.8	4.11	2.15	0.15
056182	32909402	1.92	< 5	0.29	0.45	9.6	< 10	108.8	3.30	0.15	3.09	0.18	90.4	15.5	26	3.85	18.4	4.56	1.85	0.10
056183	32909402	1.96	< 5	0.59	0.42	5.9	< 10	91.4	3.70	0.13	3.00	0.12	89.3	16.7	29	3.60	17.2	4.22	1.95	0.05
056184	32909402	1.08	< 5	0.47	0.50	3.7	< 10	110.0	5.20	0.23	3.34	0.11	113.5	12.1	13	3.30	48.0	3.86	2.00	0.10
056185	32909402	2.10	< 5	0.34	0.54	5.6	< 10	137.6	4.75	0.03	5.19	0.12	48.3	34.9	25	4.30	33.8	6.74	1.80	0.05
056186	32909402	2.30	< 5	0.32	0.49	5.3	< 10	115.4	4.25	0.04	5.46	0.12	48.3	37.6	27	3.30	28.6	7.40	1.80	0.05
056187	32909402	1.80	< 5	0.26	1.08	0.1	< 10	266.4	4.05	< 0.01	5.60	0.09	52.6	39.4	23	9.30	25.6	7.73	3.25	0.10
056188	32909402	1.88	< 5	0.25	0.56	4.5	< 10	130.0	4.10	0.01	4.56	0.11	51.2	37.8	28	4.05	33.6	7.56	2.00	0.10
056189	32909402	2.06	10	0.29	0.51	10.5	< 10	129.4	3.65	0.03	6.14	0.18	43.8	36.1	27	3.25	40.8	7.86	1.70	0.05
056190	32909402	1.96	< 5	0.34	0.60	9.5	< 10	141.6	3.80	0.08	4.93	0.17	45.9	33.2	36	4.00	45.8	7.12	1.85	0.05



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Page Number :2-A  
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275 ALSEK RD.  
WHITEHORSE, YT  
Y1A 4T1

Project: CANYON GOLD  
Comments:

## CERTIFICATE OF ANALYSIS A0128210

SAMPLE	PREP CODE	Weight Kg	Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm
056191	32909402	2.06	< 5	0.67	0.48	9.7	< 10	135.4	4.15	0.06	5.42	0.16	43.6	33.5	34	3.95	32.4	6.54	1.55	0.05
056192	32909402	2.24	< 5	0.79	0.36	6.0	< 10	77.8	2.85	0.44	3.21	0.20	90.9	6.5	7	2.25	19.8	2.49	1.60	0.05
056193	32909402	1.60	< 5	0.68	2.78	14.1	< 10	530.7	1.45	0.25	1.83	0.46	48.0	18.5	45	2.05	70.1	3.93	8.10	0.05
056194	32909402	1.82	< 5	0.59	2.39	10.7	< 10	497.6	0.85	0.22	3.04	0.42	35.6	19.4	44	1.20	103.0	3.75	6.40	0.05
056195	32909402	1.56	< 5	0.45	2.49	13.1	< 10	793.6	1.05	0.21	2.38	0.36	45.7	17.5	46	1.50	58.2	3.74	6.75	0.05
056196	32909402	1.44	< 5	0.44	2.74	15.8	< 10	631.7	1.40	0.22	2.06	0.42	51.4	19.1	49	1.65	60.4	4.09	7.65	0.05
056197	32909402	1.74	< 5	0.34	1.92	12.2	< 10	587.5	1.15	0.19	2.28	0.32	39.5	15.5	34	1.50	56.7	3.43	5.40	0.05
056198	32909402	1.74	< 5	0.34	2.57	12.0	< 10	526.3	1.65	0.21	1.91	0.42	45.7	19.7	66	1.70	52.3	4.13	7.15	0.05
056199	32909402	0.84	5	0.39	1.25	9.1	< 10	481.6	1.35	0.25	0.64	0.43	30.2	15.7	23	2.00	62.2	3.49	3.30 < 0.05	
056200	32909402	1.80	< 5	0.38	0.72	9.3	< 10	356.6	0.95	0.19	0.30	0.34	30.4	7.1	13	2.05	66.8	3.11	1.90 < 0.05	
056201	32909402	1.74	< 5	0.36	0.35	5.2	< 10	207.6	0.45	0.08	0.55	0.12	12.95	4.9	7	0.85	65.9	1.91	0.90 < 0.05	
056202	32909402	1.90	< 5	0.39	0.39	8.9	< 10	247.4	0.65	0.13	0.88	0.18	18.55	6.4	9	1.10	76.0	2.73	1.00 < 0.05	
056203	32909402	1.82	< 5	0.50	0.37	6.9	< 10	225.8	0.55	0.10	0.51	0.15	13.40	7.6	7	0.80	98.1	1.99	0.95 < 0.05	
056204	32909402	1.70	< 5	0.85	0.55	6.8	< 10	314.4	0.90	0.15	0.89	0.22	25.6	11.3	9	1.30	51.3	2.52	1.50 < 0.05	
056205	32909402	1.78	< 5	0.88	0.96	5.7	< 10	292.8	0.90	0.13	0.86	0.22	23.6	9.4	14	1.15	52.6	3.14	2.75 < 0.05	
056206	32909402	1.68	< 5	0.67	0.49	9.4	< 10	282.0	0.85	0.13	0.44	0.17	19.00	7.9	9	1.25	96.3	2.39	1.30 < 0.05	
056207	32909402	1.70	< 5	0.62	1.36	13.2	< 10	445.6	1.75	0.27	0.37	0.52	27.2	16.4	25	2.30	53.4	3.60	3.85	0.05
056208	32909402	1.64	< 5	0.55	1.22	14.7	< 10	457.2	1.30	0.22	0.62	0.34	21.4	11.9	23	1.80	60.1	2.84	3.45 < 0.05	
056209	32909402	1.66	< 5	0.41	1.30	6.4	< 10	353.2	1.20	0.20	0.67	0.30	24.5	8.7	19	1.90	28.4	2.56	3.75 < 0.05	
056210	32909402	1.68	< 5	0.30	0.58	8.0	< 10	146.6	0.30	0.05	1.68	0.07	9.20	3.6	10	0.45	29.8	1.41	1.50 < 0.05	
056211	32909402	1.54	< 5	0.83	1.51	10.2	< 10	466.0	1.20	0.21	0.48	0.30	18.85	9.5	22	1.60	26.6	2.93	4.35 < 0.05	
056212	32909402	1.68	< 5	0.59	1.71	6.8	< 10	420.0	1.15	0.19	0.77	0.32	22.6	10.7	23	1.55	25.6	3.55	5.20	0.05
056213	32909402	1.80	< 5	0.55	1.83	6.3	< 10	300.0	1.20	0.21	0.58	0.36	23.0	11.8	27	1.65	31.6	3.60	5.25 < 0.05	
056214	32909402	1.76	< 5	0.48	1.62	10.1	< 10	484.6	1.15	0.20	0.30	0.29	26.5	10.0	26	1.35	26.8	3.15	4.70 < 0.05	
056215	32909402	1.94	< 5	0.27	1.53	7.3	< 10	396.8	1.20	0.24	0.54	0.41	27.9	12.6	24	1.70	27.2	3.10	4.30	0.05
056216	32909402	1.88	< 5	0.41	1.50	7.8	< 10	340.0	1.40	0.25	1.16	0.39	29.6	16.3	27	1.90	30.2	2.82	4.25 < 0.05	
056217	32909402	1.70	< 5	0.40	0.96	7.3	< 10	330.0	1.15	0.19	0.39	0.27	23.5	10.7	17	1.65	34.8	2.44	2.65 < 0.05	
056218	32909402	1.92	< 5	0.38	1.44	8.2	< 10	470.0	1.10	0.20	0.30	0.31	27.8	11.9	21	1.45	27.8	2.97	4.15 < 0.05	
056219	32909402	2.06	< 5	0.38	1.16	7.1	< 10	394.6	0.85	0.15	0.52	0.21	24.4	7.4	18	1.00	25.8	2.46	3.45 < 0.05	
056220	32909402	1.74	< 5	0.29	0.48	10.4	< 10	254.0	0.35	0.08	0.61	0.08	12.95	3.5	9	0.40	13.4	1.07	1.25 < 0.05	
056221	32909402	1.94	< 5	0.39	1.34	5.9	< 10	310.0	1.50	0.23	0.51	0.39	26.8	13.4	22	1.55	42.0	3.11	4.00 < 0.05	
056222	32909402	1.96	< 5	0.35	1.47	9.2	< 10	412.2	1.10	0.17	0.53	0.32	22.9	14.7	25	1.20	33.2	3.23	4.65 < 0.05	
056223	32909402	1.44	< 5	0.25	0.64	8.1	< 10	256.4	0.50	0.08	0.44	0.10	8.86	3.9	12	0.65	24.0	1.51	1.85 < 0.05	
056224	32909402	1.94	< 5	0.23	1.20	6.0	< 10	293.2	0.85	0.16	0.38	0.55	18.10	5.4	19	1.30	22.4	2.63	3.35 < 0.05	
056225	32909402	1.98	10	0.34	1.63	3.5	< 10	370.0	1.65	0.26	0.25	0.44	32.8	13.5	24	1.70	38.4	3.08	4.75 < 0.05	
056226	32909402	1.86	< 5	0.71	1.54	6.0	< 10	357.2	1.55	0.20	0.57	0.36	30.1	13.4	23	1.20	41.0	3.46	4.50 < 0.05	
056227	32909402	1.82	< 5	0.53	1.51	9.1	< 10	290.6	1.20	0.20	0.61	0.25	23.8	13.0	21	1.40	30.2	3.67	4.45	0.05
056228	32909402	1.82	< 5	0.49	1.37	7.7	< 10	367.4	1.45	0.23	0.41	0.44	32.9	16.1	22	1.40	39.2	2.80	3.95 < 0.05	
056229	32909402	1.68	< 5	0.55	1.72	8.5	< 10	449.2	1.55	0.24	0.44	0.36	28.6	11.9	23	1.55	33.0	3.41	4.95	0.05
056230	32909402	2.06	< 5	0.46	1.01	9.1	< 10	290.4	1.20	0.19	0.71	0.32	28.1	7.5	25	1.35	38.0	3.41	3.05 < 0.05	

CERTIFICATION:



# ALS Chemex

Aurora Laboratory Services Ltd

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: CARLOS, ALLEN

\*\*

275 ALSEK RD.  
WHITEHORSE, YT  
Y1A 4T1

Page Number :3-A  
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P.O. Number  
Account TFI

Project: CANYON GOLD  
Comments:

## CERTIFICATE OF ANALYSIS

A0128210

SAMPLE	PREP CODE	Weight	Au	ppb	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge
		Kg	F+A	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
056231	32909402	2.04	< 5	0.62	0.30	25.5	< 10	162.6	0.45	0.08	0.72	0.14	15.70	4.8	9	0.65	61.8	1.17	0.80	< 0.05	
056232	32909402	2.58	10	0.86	0.31	9.0	< 10	166.0	0.55	0.08	0.58	0.12	18.30	4.7	9	0.60	46.6	2.51	0.90	< 0.05	
056233	32909402	1.34	15	0.41	0.25	27.7	< 10	34.4	1.35	0.12	0.74	0.15	147.5	0.7	3	2.65	3.6	1.65	1.40	0.10	
056234	32909402	1.64	< 5	0.52	0.34	1.8	< 10	49.6	2.00	0.04	0.35	0.23	143.0	0.7	3	2.75	3.4	1.82	1.60	0.05	

CERTIFICATION:



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275 ALSEK RD.  
WHITEHORSE, YT  
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Total Pages : 3  
Certificate Date: 16-NOV-2001  
Invoice No.: I0128210  
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Account : TFI

Project: CANYON GOLD  
Comments:

## CERTIFICATE OF ANALYSIS A0128210

SAMPLE	PREP CODE	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm
056151	32909402	0.10	0.15	0.055	0.50	15.0	6.7	1.24	865	2.80	0.08	0.10	53.3	1660	11.6	18.0 < 0.001	0.02	0.40	10.8	
056152	32909402	0.06	0.11	0.055	0.52	27.4	11.8	2.13	985	1.55	0.41	0.15	55.1	2120	7.4	23.8 < 0.001	0.01	0.25	16.2	
056153	32909402	0.10	0.06	0.060	0.17	31.0	19.1	2.65	1255	2.10	0.77	0.25	62.9	2690	2.8	9.7 < 0.001	0.01	0.25	17.7	
056154	32909402	0.10	0.16	0.060	0.25	12.4	14.1	2.03	910	6.90	0.23	0.05	46.4	1310	12.2	14.6 < 0.001	0.10	0.35	12.0	
056155	32909402	0.14	0.09	0.075	0.23	37.8	5.9	0.56	570	2.05	0.20 < 0.05	9.2	460	22.2	11.9 < 0.001	0.01	0.30	6.0		
056156	32909402	0.14	0.05	0.075	0.27	35.0	7.1	1.13	795	1.45	0.24	0.05	14.2	1310	21.2	15.2 < 0.001	0.01	0.35	9.9	
056157	32909402	0.16	0.03	0.100	0.31	42.2	2.7	0.31	545	3.95	0.19	0.05	5.6	320	24.0	14.1 < 0.001	0.01	0.20	4.2	
056158	32909402	0.18	0.04	0.100	0.30	42.6	2.3	0.32	585	3.75	0.19	0.05	5.4	300	26.2	13.6 < 0.001	0.01	0.15	4.2	
056159	32909402	0.18	0.01	0.095	0.28	38.6	2.9	0.32	585	3.50	0.18	0.05	5.4	330	22.6	13.2 < 0.001	0.01	0.10	4.2	
056160	32909402	0.16	0.02	0.075	0.34	32.6	7.3	1.66	930	0.55	0.22	0.05	21.2	1820	14.2	19.1 < 0.001	0.02	0.05	11.2	
056161	32909402	0.22	0.03	0.080	0.42	36.6	4.0	0.60	625	3.20	0.15	0.05	10.4	830	34.4	25.7 < 0.001	0.05	0.20	4.8	
056162	32909402	0.40	0.07	0.075	0.33	56.0	3.3	0.31	425	3.95	0.14	0.25	6.4	340	39.0	21.6 < 0.001	0.03	0.10	2.7	
056163	32909402	0.32	0.04	0.095	0.30	50.2	3.9	0.56	865	3.55	0.16	0.20	16.2	1170	26.8	19.2 < 0.001	0.07	0.20	5.7	
056164	32909402	0.28	0.08	0.080	0.33	45.6	3.7	0.39	775	3.10	0.15	0.20	14.0	1140	32.2	20.9 < 0.001	0.24	0.35	4.0	
056165	32909402	0.38	0.04	0.080	0.30	68.2	2.6	0.20	390	5.00	0.11	0.20	3.8	80	41.2	18.8 < 0.001	0.06	0.15	1.8	
056166	32909402	0.64	0.03	0.085	0.33	80.6	2.6	0.21	415	4.55	0.11	0.25	4.0	220	42.0	22.4 < 0.001	0.10	0.30	1.9	
056167	32909402	0.32	0.04	0.065	0.28	56.8	2.7	0.29	540	3.70	0.12	0.20	8.4	470	30.4	17.6 < 0.001	0.06	0.15	2.7	
056168	32909402	0.30	0.03	0.075	0.32	61.4	3.1	0.30	565	2.85	0.12	0.20	9.6	540	35.6	23.2 < 0.001	0.08	0.20	3.0	
056169	32909402	0.30	0.03	0.070	0.35	76.6	3.3	0.15	385	2.70	0.13	0.20	2.0	60	45.6	26.6 < 0.001	0.04	0.05	1.6	
056170	32909402	0.18	0.06	0.070	0.28	35.8	8.7	1.14	800	1.50	0.24	0.10	16.8	1390	21.6	17.7 < 0.001	0.01	0.35	7.6	
056171	32909402	0.18	0.04	0.060	0.28	24.4	10.1	1.45	910	2.60	0.20	0.10	28.2	1250	22.6	19.8 < 0.001	0.11	0.40	7.2	
056172	32909402	0.16	0.02	0.035	0.37	10.4	3.4	0.37	410	7.00	0.09	0.05	22.4	470	23.6	31.0 < 0.002	< 0.01	0.10	2.6	
056173	32909402	0.56	0.03	0.080	0.26	56.4	2.8	0.23	695	3.90	0.11	0.45	9.8	480	32.8	20.3 < 0.001	< 0.01	0.15	3.1	
056174	32909402	0.44	0.03	0.085	0.23	57.6	2.1	0.19	430	4.00	0.10	0.30	6.6	330	40.0	16.7 < 0.001	0.01	0.20	2.3	
056175	32909402	0.40	0.02	0.070	0.22	56.2	2.3	0.24	530	3.60	0.11	0.20	8.4	580	36.4	15.4 < 0.001	0.03	0.10	2.5	
056176	32909402	0.34	0.03	0.080	0.25	52.4	3.4	0.40	830	2.85	0.14	0.25	15.8	1120	34.4	17.7 < 0.001	0.08	0.20	4.1	
056177	32909402	1.92	0.16	0.055	0.74	43.8	4.8	0.14	265	4.95	0.11	4.05	2.8	100	49.8	73.5 < 0.001	0.04	0.25	1.8	
056178	32909402	0.44	0.06	0.100	0.28	64.4	2.9	0.17	430	4.00	0.10	0.60	5.6	200	41.6	22.2 < 0.001	0.06	0.15	1.9	
056179	32909402	0.24	0.06	0.065	0.28	44.6	5.5	0.95	1110	2.05	0.15	0.35	29.0	1600	24.2	21.2 < 0.001	0.06	0.30	9.0	
056180	32909402	0.32	0.06	0.065	0.24	58.6	3.1	0.32	535	3.20	0.12	0.25	8.6	520	32.0	17.0 < 0.001	0.04	0.20	3.0	
056181	32909402	0.26	0.07	0.070	0.24	49.8	4.5	0.57	755	2.65	0.16	0.20	20.6	1190	28.6	17.6 < 0.001	0.06	0.25	4.7	
056182	32909402	0.22	0.07	0.065	0.25	49.0	5.8	0.82	945	2.85	0.16	0.15	19.4	1110	23.8	16.5 < 0.001	0.05	0.30	6.9	
056183	32909402	0.58	0.12	0.060	0.24	51.6	6.3	0.76	895	2.45	0.17	0.30	26.0	1410	19.6	17.1 < 0.001	0.03	0.15	5.9	
056184	32909402	0.38	0.08	0.055	0.28	54.4	7.1	0.59	880	1.70	0.19	0.20	17.8	750	35.0	20.0 < 0.001	0.03	0.15	4.5	
056185	32909402	0.20	0.07	0.050	0.27	22.2	8.2	1.20	1520	2.05	0.17	0.15	49.6	2260	4.8	18.0 < 0.001	0.05	0.25	11.9	
056186	32909402	0.20	0.08	0.050	0.23	22.4	8.4	1.38	1705	1.05	0.15	0.15	51.6	2110	5.2	15.2 < 0.001	0.15	0.40	12.2	
056187	32909402	0.16	0.09	0.055	0.32	24.8	25.1	1.84	1605	0.45	0.22	0.10	47.0	1950	3.4	25.7 < 0.001	0.03	0.25	15.7	
056188	32909402	0.14	0.14	0.050	0.27	23.8	9.6	1.13	1465	1.85	0.16	0.05	53.3	2240	4.4	17.9 < 0.001	0.08	0.30	12.8	
056189	32909402	0.16	0.09	0.050	0.24	20.0	8.4	1.21	2330	1.50	0.16	0.10	48.8	2160	16.8	15.2 < 0.001	0.12	0.40	12.9	
056190	32909402	0.12	0.05	0.060	0.27	21.0	10.5	1.16	1665	1.10	0.18	0.05	45.0	2280	13.4	18.6 < 0.001	0.08	0.30	12.3	

CERTIFICATION: \_\_\_\_\_



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\*\*

275 ALSEK RD.  
WHITEHORSE, YT  
Y1A 4T1

Page Number :2-B  
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## CERTIFICATE OF ANALYSIS A0128210

SAMPLE	PREP CODE	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm
056191	32909402	0.14	0.04	0.045	0.25	19.8	8.1	1.16	1770	1.00	0.16	0.05	43.2	1890	6.4	17.0< 0.001	0.11	0.35	11.4	
056192	32909402	0.30	0.11	0.050	0.23	49.0	3.8	0.32	545	5.30	0.13	0.15	8.8	450	37.8	15.5< 0.001	0.04	0.20	3.3	
056193	32909402	0.16	0.14	0.045	0.51	26.4	30.0	1.04	760	1.50	0.39	0.05	55.6	940	24.0	22.6 0.001	0.12	0.40	7.0	
056194	32909402	0.12	0.37	0.030	0.34	17.0	19.3	1.37	805	1.10	0.27	0.05	37.4	540	52.4	14.6< 0.001	0.33	0.35	9.1	
056195	32909402	0.12	0.15	0.035	0.40	21.4	25.5	1.14	750	1.35	0.34	0.05	47.4	850	25.0	17.5< 0.001	0.18	0.40	7.2	
056196	32909402	0.12	0.19	0.040	0.45	24.0	29.5	1.26	780	1.65	0.38	0.05	52.2	980	24.8	19.8 0.001	0.19	0.45	7.9	
056197	32909402	0.12	0.27	0.030	0.28	18.4	20.6	1.05	715	1.25	0.30 < 0.05	37.2	670	26.8	13.0< 0.001	0.21	0.45	6.8		
056198	32909402	0.10	0.10	0.050	0.40	21.0	27.7	1.23	745	2.00	0.36 < 0.05	57.4	940	22.2	17.1< 0.001	0.11	0.35	8.1		
056199	32909402	0.10	0.05	0.050	0.37	13.8	8.1	0.58	590	2.00	0.27 < 0.05	48.4	750	26.8	15.5< 0.001	0.04	0.25	5.7		
056200	32909402	0.08	0.01	0.040	0.24	14.2	4.4	0.47	260	0.55	0.22 < 0.05	34.0	140	26.6	10.1< 0.001	0.01	0.05	4.1		
056201	32909402	0.10	0.01	0.015	0.15	5.8	1.7	0.27	275	0.60	0.15 < 0.05	14.6	420	15.4	6.0< 0.001 < 0.01	0.15	2.3			
056202	32909402	0.10	0.01	0.025	0.16	8.4	2.0	0.41	415	0.75	0.17 < 0.05	23.0	220	21.2	6.8< 0.001	0.02	0.25	3.1		
056203	32909402	0.08	0.02	0.020	0.15	6.2	2.0	0.25	305	1.10	0.17 < 0.05	19.6	250	15.6	5.8< 0.001	0.01	0.35	2.4		
056204	32909402	0.16	0.08	0.035	0.19	9.6	3.5	0.37	465	2.00	0.20	0.20	31.6	320	21.8	8.9< 0.001	0.02	0.30	3.5	
056205	32909402	0.20	0.06	0.025	0.17	10.4	9.9	0.45	400	1.00	0.16	0.15	30.4	1390	21.6	8.4< 0.001	0.01	0.30	3.3	
056206	32909402	0.10	0.04	0.025	0.18	8.6	3.1	0.30	540	0.80	0.19	0.10	22.0	360	16.6	8.6< 0.001	0.03	0.25	2.7	
056207	32909402	0.10	0.05	0.050	0.24	12.2	15.3	0.55	605	1.85	0.25	0.05	54.5	520	30.0	12.4< 0.001	0.04	0.35	3.9	
056208	32909402	0.10	0.04	0.035	0.21	9.6	13.4	0.44	495	1.40	0.21	0.05	42.8	320	26.4	10.5< 0.001	0.04	0.35	3.0	
056209	32909402	0.08	0.03	0.030	0.21	11.0	13.5	0.39	320	1.05	0.20	0.05	32.4	210	21.4	10.7< 0.001	0.02	0.25	2.6	
056210	32909402	0.06 < 0.01< 0.005	0.12	4.2	5.2	0.18	570	0.50	0.10	0.05	13.6	260	8.8	5.4< 0.001	0.01	0.30	1.4			
056211	32909402	0.06	0.04	0.040	0.21	8.4	17.0	0.42	275	0.80	0.19 < 0.05	38.4	290	26.4	10.3< 0.001	0.02	0.25	2.9		
056212	32909402	0.06	0.04	0.035	0.18	10.2	19.8	0.49	490	1.15	0.17 < 0.05	38.6	850	24.4	9.3< 0.001	0.01	0.20	2.9		
056213	32909402	0.06	0.03	0.040	0.28	10.4	18.6	0.49	425	1.15	0.18 < 0.05	42.0	260	27.8	13.1< 0.001	0.01	0.20	3.3		
056214	32909402	0.06	0.03	0.040	0.22	11.8	17.2	0.50	260	0.80	0.19 < 0.05	36.6	360	25.8	10.6< 0.001	0.02	0.20	2.8		
056215	32909402	0.08	0.04	0.050	0.24	11.8	17.1	0.48	430	2.00	0.19	0.05	40.8	490	29.4	9.4< 0.001	0.03	0.45	4.7	
056216	32909402	0.06	0.03	0.045	0.24	13.2	14.9	0.48	665	2.15	0.23 < 0.05	50.3	470	26.8	11.8< 0.001	0.03	0.35	3.1		
056217	32909402	0.06	0.04	0.035	0.22	10.6	8.2	0.38	330	1.15	0.20 < 0.05	30.2	210	21.4	10.9< 0.001	0.03	0.30	2.8		
056218	32909402	0.04	0.02	0.040	0.24	12.2	13.9	0.48	315	2.25	0.17 < 0.05	39.2	160	23.8	11.3< 0.001	0.03	0.30	3.0		
056219	32909402	0.04	0.03	0.025	0.21	11.0	11.0	0.38	320	0.90	0.14 < 0.05	26.6	270	20.0	8.9< 0.001	0.01	0.20	2.5		
056220	32909402	0.02	0.01	0.005	0.17	6.2	2.7	0.17	305	0.45	0.09 < 0.05	11.8	350	10.2	7.3< 0.001	0.03	0.40	1.3		
056221	32909402	0.06	0.03	0.045	0.26	11.6	12.5	0.48	550	1.90	0.20 < 0.05	41.8	490	25.0	11.8< 0.001	0.03	0.30	3.2		
056222	32909402	0.06	0.01	0.035	0.21	10.0	14.4	0.49	475	1.05	0.16 < 0.05	43.8	760	24.2	10.4< 0.001	0.01	0.20	3.3		
056223	32909402	0.04	0.02	0.005	0.17	4.0	4.6	0.23	235	0.30	0.11 < 0.05	15.2	400	12.8	7.6< 0.001	0.01	0.15	1.5		
056224	32909402	0.08	0.04	0.035	0.23	7.8	11.6	0.41	295	0.50	0.14 < 0.05	23.6	320	19.8	8.7< 0.001	0.01	0.20	3.8		
056225	32909402	0.06	0.08	0.050	0.28	14.8	15.2	0.49	280	0.90	0.21 < 0.05	46.2	140	32.0	13.3< 0.001	0.01	0.20	3.1		
056226	32909402	0.18	0.09	0.040	0.22	14.8	15.5	0.50	525	0.95	0.17	0.25	44.4	1330	29.2	9.5< 0.001	0.02	0.25	7.7	
056227	32909402	0.12	0.06	0.030	0.20	11.6	16.0	0.47	650	1.25	0.16	0.15	39.6	940	23.2	9.3< 0.001	0.02	0.25	6.3	
056228	32909402	0.10	0.05	0.045	0.24	15.6	13.1	0.46	405	1.85	0.19	0.10	47.8	500	24.4	9.9< 0.001	0.01	0.25	6.5	
056229	32909402	0.10	0.07	0.045	0.37	13.8	14.5	0.50	415	1.45	0.22	0.10	40.4	320	31.4	14.8< 0.001	0.01	0.20	7.4	
056230	32909402	0.12	0.06	0.040	0.14	13.4	12.0	0.44	640	2.85	0.17	0.10	32.2	610	24.8	6.8< 0.001	0.01	0.20	6.1	

CERTIFICATION: *[Signature]*



# ALS Chemex

Aurora Laboratory Services Ltd  
Analytical Chemists \* Geochemists \* Registered Assayers  
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British Columbia, Canada V7J 2C1  
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To: CARLOS, ALLEN

\*\*

275 ALSEK RD.  
WHITEHORSE, YT  
Y1A 4T1

Page Number :3-B  
Total Pages :3  
Certificate Date: 16-NOV-2000  
Invoice No. :I0128210  
P.O. Number :  
Account :TFI

Project: CANYON GOLD  
Comments:

## CERTIFICATE OF ANALYSIS

A0128210

SAMPLE	PREP CODE	Hf ppm	Eg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm
056231	82909402	0.10	0.05	0.010	0.11	7.8	1.9	0.20	210	1.25	0.11	0.05	18.0	1120	12.8	5.2< 0.001	0.05	1.05	3.6	
056232	82909402	0.08	0.03	0.015	0.12	8.8	2.3	0.35	475	0.75	0.11	0.05	17.4	750	12.0	5.5< 0.001	0.01	0.35	4.5	
056233	82909402	0.28	0.03	0.050	0.28	67.8	0.8	0.03	440	3.65	0.03	0.20	1.0	100	47.6	18.9< 0.001	0.21	0.70	1.3	
056234	82909402	0.28	0.01	0.055	0.31	75.4	1.1	0.03	450	1.85	0.04	0.20	1.2	40	42.8	20.4< 0.001	0.05	0.25	2.4	



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 Y1A 4T1

Project: CANYON GOLD  
 Comments:

## CERTIFICATE OF ANALYSIS

A0128210

SAMPLE	PREP CODE	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
056151	32909402	0.2	0.6	145.6	< 0.01	< 0.01	4.2	< 0.01	0.08	1.35	65	0.10	16.90	76	2.0
056152	32909402	< 0.2	1.4	147.6	0.01	0.01	4.6	0.05	0.10	0.75	116	0.05	17.20	74	1.5
056153	32909402	0.2	1.2	448.0	0.01	< 0.01	5.0	0.11	0.02	0.55	136	< 0.05	18.20	74	2.5
056154	32909402	0.2	1.0	120.7	< 0.01	< 0.01	3.6	< 0.01	0.08	0.90	64	< 0.05	17.35	68	3.0
056155	32909402	0.2	1.8	99.1	0.01	< 0.01	3.8	< 0.01	0.02	0.90	21	0.05	24.45	74	2.5
056156	32909402	0.2	3.2	173.0	0.02	< 0.01	5.0	< 0.01	0.06	1.50	36	0.15	32.20	80	3.5
056157	32909402	0.2	1.0	55.5	< 0.01	< 0.01	3.8	< 0.01	0.06	0.75	14	< 0.05	19.20	86	3.0
056158	32909402	0.2	1.0	54.8	< 0.01	< 0.01	4.2	< 0.01	0.06	0.75	16	< 0.05	21.60	94	3.0
056159	32909402	0.2	1.0	48.0	< 0.01	< 0.01	5.2	< 0.01	0.06	0.70	14	< 0.05	19.40	88	3.5
056160	32909402	0.2	7.2	174.7	0.01	< 0.01	6.6	< 0.01	0.06	0.50	61	0.15	28.00	82	3.5
056161	32909402	0.2	4.4	108.1	0.01	< 0.01	5.6	< 0.01	0.14	0.75	29	0.15	28.35	96	5.5
056162	32909402	0.4	2.2	76.4	0.01	0.03	4.6	< 0.01	0.14	0.90	10	0.20	33.00	94	5.0
056163	32909402	0.6	1.6	95.9	0.01	0.03	5.2	< 0.01	0.10	0.70	35	0.20	37.20	132	5.5
056164	32909402	0.4	2.0	96.0	0.01	0.03	4.8	< 0.01	0.14	1.00	25	0.25	35.95	104	5.0
056165	32909402	0.4	1.8	65.5	0.01	0.01	4.2	< 0.01	0.14	1.10	5	0.15	34.85	100	6.5
056166	32909402	0.6	1.6	97.0	0.01	0.03	7.2	< 0.01	0.14	1.25	6	0.15	39.70	106	13.0
056167	32909402	0.4	1.2	78.3	0.01	0.01	4.8	< 0.01	0.10	0.95	12	0.15	34.50	80	6.5
056168	32909402	0.4	1.8	91.4	0.01	0.02	5.4	< 0.01	0.12	0.80	13	0.15	34.85	100	7.0
056169	32909402	0.6	3.4	84.8	0.01	0.02	4.8	< 0.01	0.14	0.95	3	0.10	37.55	96	6.0
056170	32909402	0.4	2.8	181.0	0.01	0.02	5.2	< 0.01	0.06	1.50	36	0.15	36.90	84	4.0
056171	32909402	0.4	4.8	169.8	0.03	0.02	8.0	< 0.01	0.08	0.85	39	0.75	30.20	86	5.0
056172	32909402	< 0.2	2.2	45.0	< 0.01	0.01	3.4	< 0.01	0.08	0.60	27	0.15	9.35	86	4.5
056173	32909402	0.4	1.6	81.4	0.01	0.02	9.6	< 0.01	0.08	1.20	13	0.20	36.90	94	15.0
056174	32909402	0.6	1.6	63.3	0.01	0.03	8.4	< 0.01	0.08	2.65	10	0.15	43.65	68	10.5
056175	32909402	0.4	1.0	70.0	0.01	0.02	7.6	< 0.01	0.08	0.95	12	0.15	37.20	104	10.5
056176	32909402	0.4	1.0	109.7	0.01	0.01	9.0	< 0.01	0.08	0.90	22	0.25	39.55	118	9.5
056177	32909402	0.6	4.2	48.6	0.03	0.03	29.8	< 0.01	0.34	5.60	4	0.60	54.65	66	35.0
056178	32909402	0.6	1.4	73.2	0.01	0.02	8.4	< 0.01	0.12	2.20	7	0.20	47.40	94	11.0
056179	32909402	0.6	2.0	154.5	0.03	0.02	10.8	< 0.01	0.12	0.65	48	0.30	41.90	116	7.5
056180	32909402	0.4	2.0	74.1	0.01	0.01	7.6	< 0.01	0.10	0.95	13	0.20	35.15	104	9.0
056181	32909402	0.6	1.8	105.7	0.01	0.03	8.6	< 0.01	0.10	0.80	28	0.25	38.55	96	8.0
056182	32909402	0.2	2.2	141.7	0.03	0.03	5.8	< 0.01	0.08	0.70	32	0.35	33.60	94	4.5
056183	32909402	0.2	1.4	143.6	0.02	< 0.01	8.4	< 0.01	0.10	0.70	33	0.25	37.40	100	7.0
056184	32909402	0.2	6.8	174.6	0.01	0.01	7.6	< 0.01	0.10	0.70	23	0.30	36.40	92	6.5
056185	32909402	0.2	1.4	162.1	0.01	< 0.01	8.0	< 0.01	0.10	0.10	86	0.20	35.60	106	2.5
056186	32909402	0.2	0.6	162.6	0.01	< 0.01	8.6	< 0.01	0.12	0.10	96	0.15	36.20	100	2.5
056187	32909402	0.2	0.2	202.1	0.01	0.01	6.0	< 0.01	0.14	0.15	74	0.05	38.10	88	2.5
056188	32909402	0.2	0.6	151.0	0.01	< 0.01	6.2	< 0.01	0.12	0.10	97	0.15	41.00	118	2.0
056189	32909402	0.2	1.6	217.4	0.01	< 0.01	7.8	< 0.01	0.12	0.10	100	0.20	44.80	124	2.0
056190	32909402	0.2	3.0	179.4	0.01	< 0.01	5.2	< 0.01	0.10	0.10	96	0.40	37.15	132	1.5

CERTIFICATION: *[Signature]*



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275 ALSEK RD  
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 Y1A 4T1

Project: CANYON GOLD  
 Comments:

## CERTIFICATE OF ANALYSIS

A0128210

SAMPLE	PREP CODE	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
056191	32909402	0.2	2.6	153.9	0.01	< 0.01	5.4	< 0.01	0.10	0.10	79	0.35	38.30	140	1.5
056192	32909402	0.2	3.2	198.6	0.01	0.01	5.4	< 0.01	0.10	1.10	14	0.20	30.20	82	4.5
056193	32909402	0.6	7.6	188.4	< 0.01	0.01	5.2	< 0.01	0.04	1.35	54	0.05	19.05	106	2.0
056194	32909402	0.6	10.6	222.4	< 0.01	0.02	4.6	< 0.01	0.06	1.25	56	0.05	14.35	90	1.5
056195	32909402	0.4	5.8	223.6	< 0.01	0.01	4.8	< 0.01	0.02	1.20	50	0.05	15.85	84	1.5
056196	32909402	0.4	5.4	198.8	< 0.01	0.01	5.6	< 0.01	0.02	1.25	54	0.05	17.70	94	1.5
056197	32909402	0.4	5.2	194.0	< 0.01	0.02	5.4	< 0.01	0.02	1.55	37	0.05	14.60	72	1.5
056198	32909402	0.4	4.0	185.0	< 0.01	0.02	5.2	< 0.01	0.02	1.00	53	0.05	16.95	96	1.5
056199	32909402	0.6	6.0	90.8	< 0.01	0.03	3.6	< 0.01	0.04	0.85	25	0.20	12.35	102	1.5
056200	32909402	0.2	7.8	68.1	< 0.01	0.01	2.6	< 0.01	0.06	0.75	15	0.15	6.60	92	1.0
056201	32909402	0.2	9.6	71.6	< 0.01	< 0.01	1.8	< 0.01	0.06	0.35	8	0.20	7.10	48	1.5
056202	32909402	0.2	10.8	89.1	0.01	0.01	2.2	< 0.01	0.08	0.45	11	0.20	7.00	60	1.5
056203	32909402	0.2	14.6	71.2	< 0.01	0.01	1.8	< 0.01	0.04	0.35	8	0.30	5.65	48	1.0
056204	32909402	0.2	6.0	108.2	0.01	0.04	1.8	< 0.01	0.06	0.55	11	0.30	9.05	70	1.0
056205	32909402	0.2	6.4	87.1	0.01	0.03	2.6	< 0.01	0.06	0.50	16	0.30	13.85	64	2.0
056206	32909402	0.2	13.4	72.5	< 0.01	0.02	1.8	< 0.01	0.08	0.45	10	0.25	7.25	58	1.5
056207	32909402	0.8	3.6	84.0	< 0.01	0.07	2.8	< 0.01	0.06	0.80	22	0.25	11.00	118	1.5
056208	32909402	0.6	6.0	83.5	< 0.01	0.06	2.0	< 0.01	0.06	0.65	18	0.25	8.05	88	1.0
056209	32909402	0.4	2.2	88.3	< 0.01	0.04	1.8	< 0.01	0.06	0.65	17	0.20	6.65	78	1.5
056210	32909402	< 0.2	4.0	96.2	< 0.01	0.02	1.2	< 0.01	0.06	0.25	7	0.15	5.15	22	0.5
056211	32909402	0.4	1.8	75.9	0.01	0.03	1.0	< 0.01	0.08	0.65	19	0.30	6.75	88	1.0
056212	32909402	0.4	2.0	81.2	< 0.01	0.03	1.2	< 0.01	0.06	0.65	22	0.25	10.20	84	1.5
056213	32909402	0.4	2.8	83.4	< 0.01	0.02	1.4	< 0.01	0.06	0.75	24	0.20	7.60	94	1.5
056214	32909402	0.6	1.8	60.0	< 0.01	0.03	1.2	< 0.01	0.06	0.75	22	0.20	7.05	86	1.5
056215	32909402	0.6	1.8	69.3	0.01	0.05	2.4	< 0.01	0.06	0.75	18	0.25	8.10	102	1.0
056216	32909402	0.6	1.4	99.2	< 0.01	0.05	1.4	< 0.01	0.08	0.90	21	0.25	11.10	98	1.5
056217	32909402	0.2	3.0	70.4	< 0.01	0.04	1.2	< 0.01	0.08	0.70	15	0.20	6.15	80	1.5
056218	32909402	0.2	2.0	60.6	< 0.01	0.02	1.2	< 0.01	0.08	0.65	20	0.20	6.15	84	1.5
056219	32909402	0.2	2.2	59.6	< 0.01	0.03	1.2	< 0.01	0.04	0.60	17	0.15	6.90	70	1.5
056220	32909402	< 0.2	1.4	47.8	< 0.01	0.01	1.0	< 0.01	0.10	0.40	7	0.15	5.30	30	1.5
056221	32909402	0.4	3.2	84.6	< 0.01	0.04	1.4	< 0.01	0.06	0.75	21	0.20	9.30	102	1.5
056222	32909402	0.6	2.6	77.1	< 0.01	0.03	1.4	< 0.01	0.06	0.60	23	0.20	9.10	96	2.0
056223	32909402	< 0.2	2.8	54.3	< 0.01	0.01	0.6	< 0.01	0.08	0.30	9	0.20	5.45	32	1.5
056224	32909402	0.2	2.0	49.4	< 0.01	0.02	1.8	< 0.01	0.04	0.50	14	0.25	5.60	70	1.0
056225	32909402	0.4	3.2	65.5	< 0.01	0.05	1.2	< 0.01	0.08	0.90	21	0.15	7.10	104	1.5
056226	32909402	0.6	3.8	75.7	0.01	0.05	3.6	< 0.01	0.06	0.65	21	0.35	14.85	92	1.5
056227	32909402	0.6	2.2	67.8	0.01	0.04	3.6	< 0.01	0.06	0.60	19	0.30	10.40	72	1.5
056228	32909402	0.6	3.0	69.3	< 0.01	0.03	3.4	< 0.01	0.04	0.75	19	0.25	9.05	106	1.5
056229	32909402	0.6	2.4	80.4	0.01	0.04	3.4	< 0.01	0.06	0.70	22	0.25	8.15	98	1.5
056230	32909402	0.6	3.2	81.2	< 0.01	0.04	3.2	< 0.01	0.04	0.60	15	0.70	10.75	78	1.5

CERTIFICATION: *[Signature]*



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A0128210

SAMPLE	PREP CODE	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
056231	32909402	0.2	7.0	72.8 < 0.01	0.03	2.2 < 0.01	0.08	0.30	6	0.40	10.55	44	1.5		
056232	32909402	0.2	5.6	63.5 < 0.01	0.03	2.8 < 0.01	0.04	0.30	11	0.25	10.60	42	1.5		
056233	32909402	0.2	0.4	20.6 0.01	0.01	6.6 < 0.01	0.30	1.15	< 1	0.10	30.45	70	5.0		
056234	32909402	0.2	0.6	22.4 0.01 < 0.01		8.8 < 0.01	0.12	0.95	2	0.10	32.60	90	8.5		

## **APPENDIX 5**

### **SUMMARY OF FIELD EXPENDITURES**

**2001 DIAMOND DRILLING**

**PROGRAM**

**CANYON CLAIMS**

## **Summary of Expenditures/Work Performed (TOTAL)**

### **Diamond Drilling and related costs**

Drill rental (rated at 10% of value of equipment/month)	
\$45,000.00 x 2.5 months= \$11,250.00	
at 75% (heavy equipment)= \$8,437.50	\$8,437.50
Drilling fluids	\$ 750.00
Core boxes	\$ 412.96
Diamond products	\$1,380.00
Core barrel assembly and slides	\$1,303.26
Fuel	\$1,104.25
Truck rental (2 ½ months at \$1,450.00/month)	
2.5 x \$1,450.00 = \$3,625.00 x 25% = \$906.25	\$ 906.25
Truck mileage: a) Daily work travel = 450Km.	
b) Whitehorse – return = <u>2317Km.</u>	
TOTAL 2767 Km. x .42 =	
Assays	\$1,162.00
Logging of core (R. Stroschein)	\$3,801.44
Living expenses: \$35.00 x 177 man days	\$1,200.00
Salaries: (Luke) 73 days x \$150.00 per = \$10,950.00	\$6,195.00
(Shane) 40 days x \$150.00per = \$ 6,000.00	\$10,950.00
Report and drafting	\$ 6,000.00
	<u>\$ 500.00</u>
<b>GRAND TOTAL FOR SUMMER 2001=</b>	<b>\$44,373.38</b>

Percentage of total available for assessment purposes on  
**CANYON CLAIMS = 83.75% OF GRAND TOTAL**

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PO Box 2703  
Whitehorse, Yukon Y1A 2C6

**2001 DIAMOND DRILLING REPORT**

**ON THE**  
**CANYON GOLD KM. 410 PROJECT**

**Whitehorse Mining District  
NTS: 105K/3  
Latitude 62°.09', Longitude 133°09'**

**KAOLIN CLAIMS  
(Aug. 30<sup>th</sup> – Sept. 11<sup>th</sup>, 2001)**

**By: A. Carlos (owner of claims)  
January 17, 2002**

**File Number 01-012**

*262*

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- 2. DRILL HOLE CROSS SECTIONS**
- 3. DRILL HOLE DESCRIPTIVE LOGS**
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- 5. CONSULTANTS RECOMMENDATIONS (ENZYME LEACH)**
- 6. CLAY MINERALOGY IN 1992 PITS (SEE FIG.2)**
- 7. SUMMARY OF EXPENDITURES**

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## **INTRODUCTION**

A brief history of the Km. target leading to the present is detailed further on in this text. The late summer of 2001, between Aug. 20<sup>th</sup> and Sept. 11<sup>th</sup>, was spent in an attempt to assess an Enzyme Leach geochemical anomaly determined the year prior.

## **PROGRAM 2001**

Hole CGK-410-1 was drilled to 235 ft. (-60°). The target was Enzyme Leach anomaly A (Appendix 5). My sons Luke and Shane aided me in this endeavor. The presence of economic mineralization was not determined. However, the pervasive brecciation and clay alteration and other field evidence would suggest that further drilling be undertaken.

## **HISTORY**

The Km. 410 area was first identified as a potentially significant target in 1984, based on the observation that a quartz-feldspar porphyry dome outcrops in the area. Also present are several north-south trending extensional faults. Trenching in 1991 exposed a 35 metre interval of extensive clay alteration with a prominent red, yellow and orange colour anomaly in felsic volcanic rocks. The exposure contained weakly anomalous gold values up to 325 ppb and was very similar to the strong clay altered zones at the western end of the MAIN ZONE at Grew Creek. An airborne survey flown in 1988 resulted in the discovery of a large resistivity low anomaly centered to the west of the above trench and trending along the Grew Creek fault. Hand pitting in 1992 determined that intensely clay altered Eocene sediments were, at least in part, responsible for the resistivity low. Several till concentrate samples taken down-ice of the area in 1988 and 1992 were determined very anomalous in gold and arsenic.

## **DISCUSSION OF DIAMOND DRILLING**

A drillers perspective I believe to be important, as he sees the core as it is recovered. Prior to being placed in the box, the core had to be washed by pressure spray to remove a persistent thick coating of sticky gray clay. One had to be careful however – as the underlying core was granular, poorly cemented and washed away readily. There were several more competent sections where this was not the case. Upon drying, the material became consolidated. I do not believe “mudstone sections” – page 2 of logs – to be cracks filled with clay till.

A problem with the last 3 ft. section of casing becoming unscrewed put an end to this hole.

# GEOLOGY: THE YUKON'S UNIQUE RESOURCE



The Yukon's geology is complex and full of surprises. Over the years, areas previously explored for minerals have been revisited with innovative technology and geological modelling, resulting in the discovery of new deposits. The tumultuous geological history of the Yukon's rocks, combined with the fact that

our large territory has not yet been fully explored, creates the potential for large discoveries.

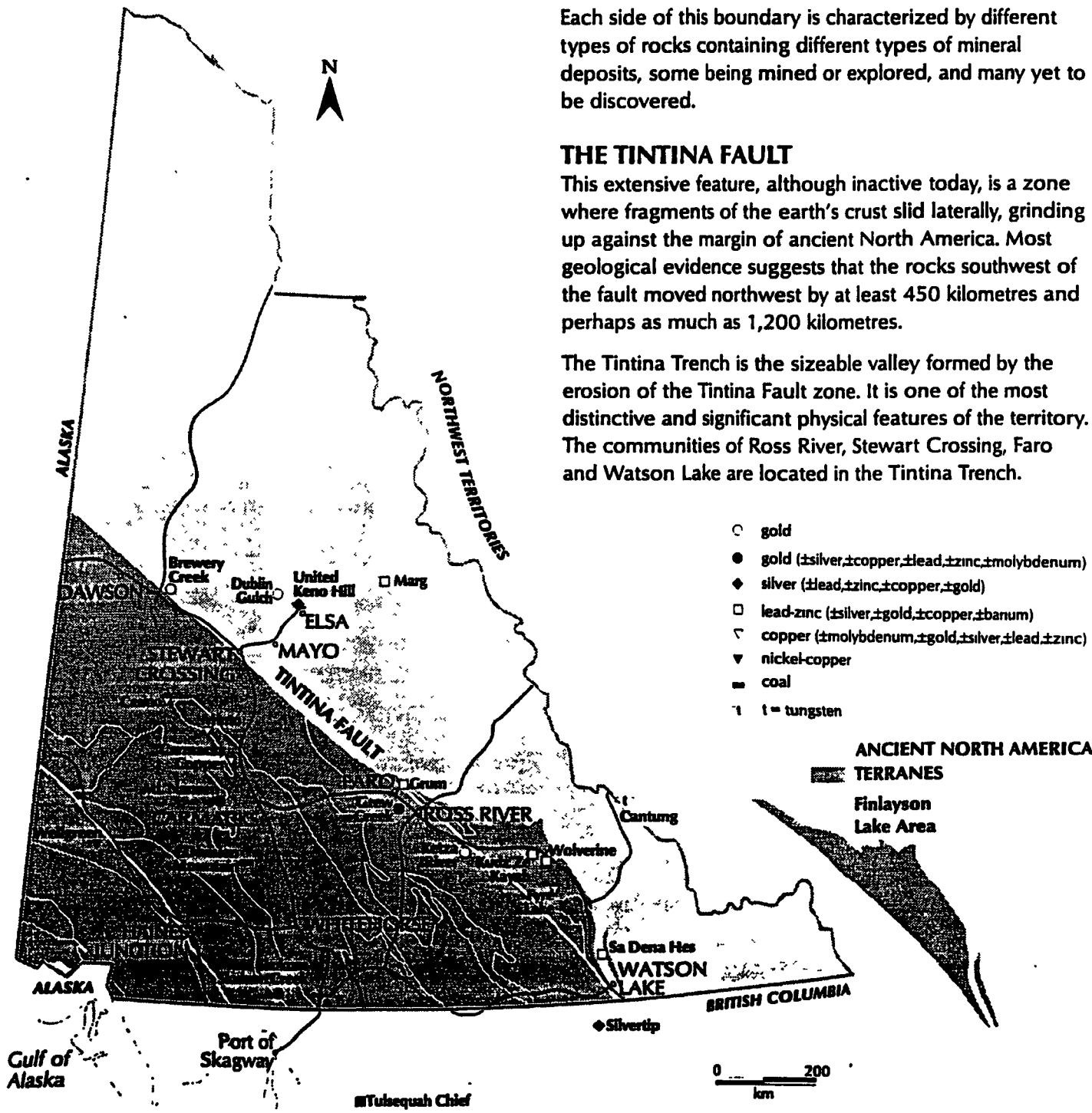
The Yukon's geology can be roughly split into two rock groups: those north of the Tintina Fault and those south of it. This dividing line cuts northwest to southeast across the territory from Alaska to northern British Columbia.

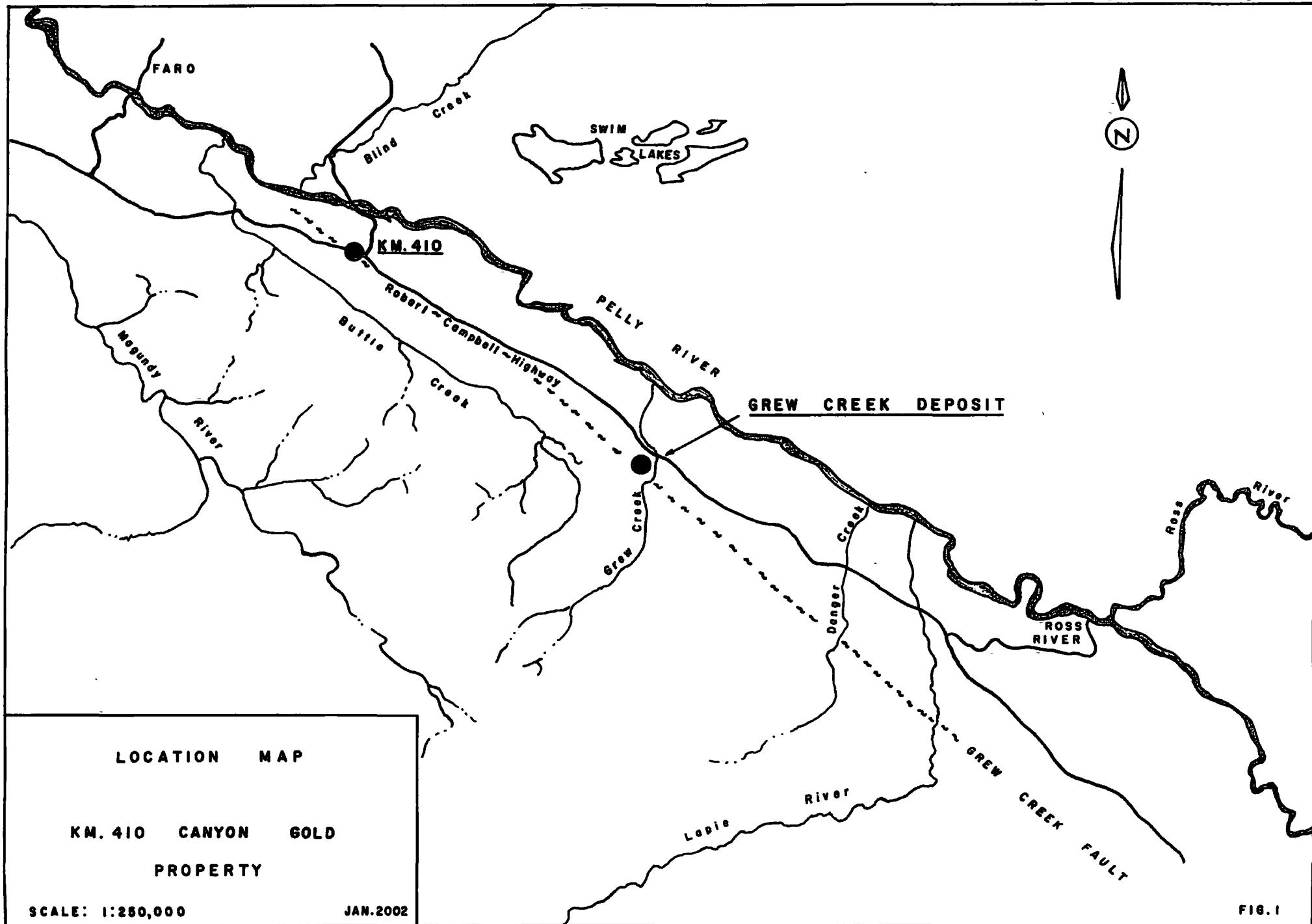
Each side of this boundary is characterized by different types of rocks containing different types of mineral deposits, some being mined or explored, and many yet to be discovered.

## THE TINTINA FAULT

This extensive feature, although inactive today, is a zone where fragments of the earth's crust slid laterally, grinding up against the margin of ancient North America. Most geological evidence suggests that the rocks southwest of the fault moved northwest by at least 450 kilometres and perhaps as much as 1,200 kilometres.

The Tintina Trench is the sizeable valley formed by the erosion of the Tintina Fault zone. It is one of the most distinctive and significant physical features of the territory. The communities of Ross River, Stewart Crossing, Faro and Watson Lake are located in the Tintina Trench.

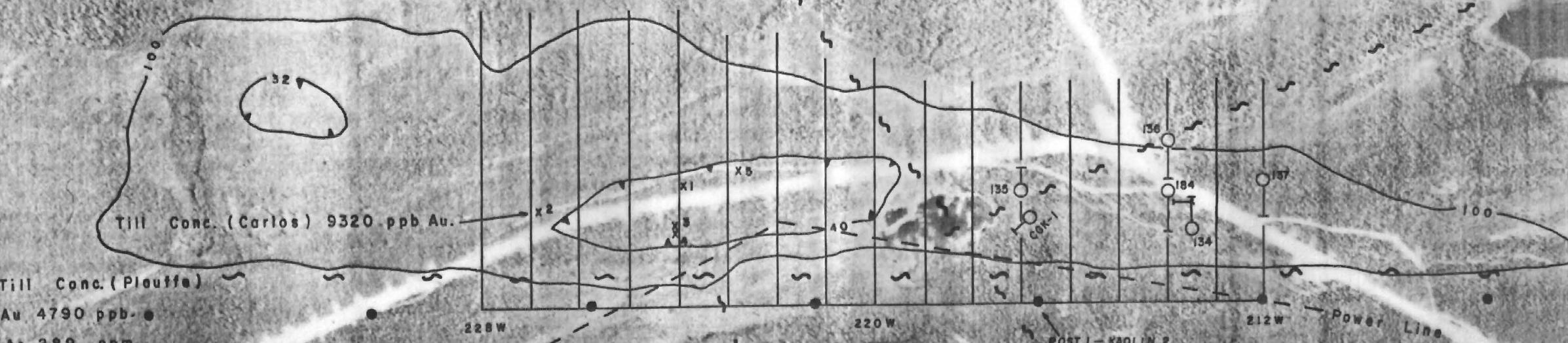




## **CONCLUSIONS AND RECOMMENDATIONS**

Pervasive clay alteration, brecciation and presence of blotchy and disseminated marcasite-pyrite indicate a potentially conducive environment for Epithermal mineralization. A compilation of past work (fig. 2) supports this observation. Perhaps it may be as simple as drilling this Enzyme Leach anomaly to a deeper level. In a 1966 report regarding other drilling in the vicinity, Robert Stroschein stated: "the diamond drilling at Km. 410 has indicated that the extensive hydrothermal alteration is at a high level within the epithermal system." My understanding of this deposit type, together with available evidence, would support his statement.

More and deeper drilling is recommended. A resistivity survey would aid in spotting drill holes, as a large part of the target area is bog – preventing effective geochemical work.



#### LEGEND

— PRIME RES. 91/ IRON STAINED CLAY ALT. VOLC. / TO 325 PPB Au.

X PITS-1992 / NO'S 1,3,4 AND 5=CLAY ALT. EOCENE SEDIMENTS.

X2 PIT = TILL / PAN CONC. (CARLOS) GAVE 9320 PPB Au.

DDH CGK-1 (OTHERS DRILLED 1993 and 1995).

ZONE OF LOW RESISTIVITY + ELECTROMAGNETIC CONDUCTORS (AIRBORNE).

CANYON GOLD KM. 410 COMPILATION

NTS 105 K-3

SCALE: 1:10,000

FIG. 2

JAN. 2002

## **APPENDIX 1**

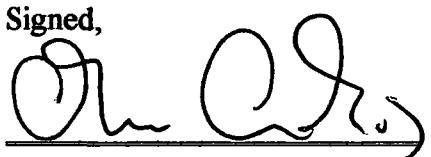
### **STATEMENT OF QUALIFICATIONS**

#### **ALLEN M. CARLOS, PROSPECTOR**

I, Allen M. Carlos of Whitehorse, Yukon Territory, hereby certify that:

1. I have been actively engaged as a mineral prospector in Western Canada for 35 years, initially for a major company, then as an independent.
2. I studied 3 years at the University of Saskatchewan:  
One year of Engineering followed by 2 years Arts and Science (Geology).
3. I worked one year in northern Saskatchewan as a student assistant for the Department of Mineral Resources.
4. I have for the last 18 years spent much time researching papers regarding Volcanic Hosted Epithermal type deposits.
5. In 1983 I was responsible for discovering the Grew Creek precious metal deposit, the first epithermal deposit of this type along the Tintina Trench in Yukon.
6. I planned and with the aid of my sons, carried out the current program.

Signed,



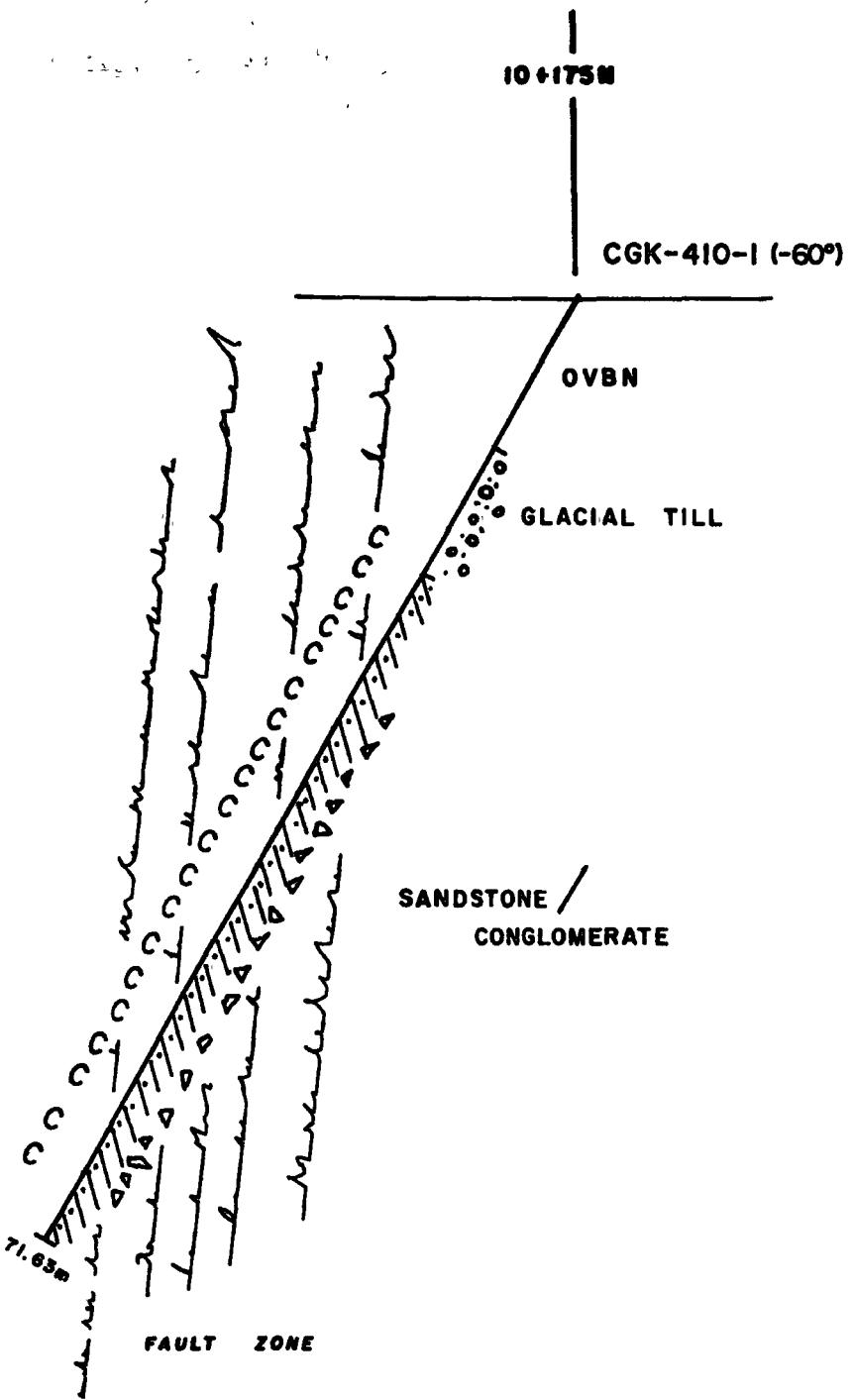
Allen M. Carlos, PROSPECTOR

January 15, 2002

## **APPENDIX 2**

### **DIAMOND DRILL HOLE CROSS SECTION**

### **2001 DRILL PROGRAM**



LEGEND:

△ BRECCIA

C CLAY ALTERATION

D.D.H. CGK-410-1 (2001)

COLLAR 21+680W

AZIMUTH 255°

LOOKING NW

SCALE: 1:500

## **APPENDIX 3**

### **DIAMOND DRILL HOLE DESCRIPTIVE LOG**

**GREW CREEK PROJECT**  
**DIAMOND DRILL HOLE LOGS**

**GEOLOGIC AND ALTERATION LEGEND**

**PLEISTOCENE**

OVBN      Overburden: poorly sorted, clay rich glacial till; numerous exotic boulders rounded to sub-angular in clay rich matrix. Or, preglacial gravel; rusty weathered sandy to pebbles of exotic composition recoveries very poor. Or, carbonaceous black organic deposits; locally coal beds at deeper levels.

**EOCENE**

SEDS      Fluvial sedimentary rocks: moderately to poorly consolidated interbedded sandstone, conglomerate, argillite and coal. Light grey to black, moderately to poorly sorted sandstone and polymictic conglomerate with gradational contacts. Conglomerate is clast supported with sandy matrix. Sandstone massive to graded bedding and locally cross bedded. Argillite is fissile black mudstone to coaly deposits. Thin beds within the clastic graded sequence.

TUFF      Felsic crystal tuff: otherwise identified as:

RHYT:      felsic crystal or ash tuff with variable lithic or lapilli clasts.

S&P TUFF:   salt and pepper texture of non-welded rhyolite crystal lithic tuff. Lithic clasts of uniform size ranging from 1-3 mm in crystal matrix.

CLP TUFF:   rhyolite crystal lithic or lapilli pumice tuff. Distal facies poorly sorted with minor lapilli clasts predominant lithic clast and crystal tuff matrix. Proximal facies predominantly lapilli rhyolite and pumice fragments with minor dark crystal matrix.

WELDED RHYT:   welded CLP tuff. Creamy grey to green pseudo-porphyry with rounded and broken white to grey "phenocryst" of calcite or rhyolite.

RHY      RHYOLITE:   massive fine grained grey rhyolite. Partially brecciated. Other types as follows:

	RHYX:	rhyolite breccia.
	RHYP:	rhyolite "quartz eye" porphyry. Smoky grey quartz phenocryst in fine grained creamy to white groundmass.
	QPOR:	quartz porphyry. As RHYP with larger more prominent quartz phenocryst.
	FPOR:	feldspar porphyry. Grey euhedral feldspar phenocryst in fine grained grey groundmass.
	QFP:	quartz feldspar porphyry. Grey quartz eye and feldspar phenocryst in creamy white groundmass.
IVOL	INTERMEDIATE VOLCANICS:	dark grey green lithic and lapilli tuff and tuff breccia. AND: fine grained massive andesite flow rocks. Occasionally porphyritic or amygdaloidal.
MVOL	MAFIC VOLCANICS:	dark green to black locally chloritized mafic tuff and tuff breccia.  BSLT: fine grained massive to porphyritic dark green basalt flow or dyke.
DIABASE	DIABASE/MICROGABBRO/DIORITE:	equigranular fine to medium grained mafic intrusive rocks. Composed of plagioclase grains and 20-40 % amphibole crystals.
CONG	CONGLOMERATE:	very resistant, strongly lithified quartz pebble conglomerate. Massive bedded with interbeds of SST - sandstone and ARG - argillite. Conglomerate is clast supported with rounded to sub-angular clasts of quartz, sandstone, siltstone and rare volcanic and metamorphic rocks. Interbeds of coarse sandstone are gradational quartzose beds of medium thickness. Siltstone beds are black carbonaceous.
PALAEOZOIC		
CPHY	CHLORITIC SHEAR:	well foliated heterolithic brecciated shear zone with chlorite rich matrix.
FLT	FAULT ZONE:	coarse heterolithic breccia in black carbonaceous clay matrix in conglomerate sequence or clay seams in volcanic rocks.

**ALTERATION CODES:**

S	SILICIFICATION:	W - weak, patchy M - moderate, along vein margins P - pervasive														
A	ARGILLIC:	Ac - acid leaching F - feldspars selectively altered to clay P - pervasive clay altered														
C	CARBONATE	W - weak, patchy local calcification M - moderate calcite of matrix or calcite altered "phenocrysts" P - pervasive alteration of matrix and calcite "phenocrysts". S - strong, highly effervescent with HCl.														
Se	SERICITE	W - weak, patchy green alteration M - moderate alteration P - pervasive, bright green smectite alteration														
Py	PYRITE	Percentage    Tr      trace 1      1 - 3 % 2      3 - 5 % 3      5 - 10 % 4      10 - 20 % 5      20 - 40 % Type            D      disseminated S      stinger														
Qv	QUARTZ VEINS	Number of veins or stringers.														
T	Type or Total Alteration Classification	<table border="0"> <tbody> <tr> <td>Ph</td><td>phyllitic</td></tr> <tr> <td>QA</td><td>quartz-adularia</td></tr> <tr> <td>A</td><td>argillic</td></tr> <tr> <td>W</td><td>clay weathering</td></tr> <tr> <td>L</td><td>local</td></tr> <tr> <td>M</td><td>moderate</td></tr> <tr> <td>I</td><td>intense</td></tr> </tbody> </table>	Ph	phyllitic	QA	quartz-adularia	A	argillic	W	clay weathering	L	local	M	moderate	I	intense
Ph	phyllitic															
QA	quartz-adularia															
A	argillic															
W	clay weathering															
L	local															
M	moderate															
I	intense															
CR	Core recovery in %															
Struct. Int.	Fracture intensity of core: degree of broken core from 0 - continuous whole core piece to 10 - no whole core pieces recovered.															

## **GREW CREEK PROJECT**

# **DIAMOND DRILL LOG**

Hole No.: CGK410 -1	Grid: Km 410	Claim:	Page 1 of 10
Depth: 71.63 m	Coordinates - Northing 10+175N	Bearing: 255° Az	Date Started:
Angle: -60°	- Easting: 21+680W	Elevation:	Date Completed:
Core Size: BQ	Dip Tests:	Drilled by: A Carlos	Logged By: Robert Stroschein

Footage		Rock Type	Alteration						Assays						% RCVRY	Description	
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
0.00	11.55	OVBN														0	No recovery
11.55	21.15	OVBN GLACIAL TILL															Dark grey brown clay rich glacial fill with exotic rounded to sub-round pebbles and boulders. Cong, Shale, Sst, Qpp
										11.55	13.00	1.45	056193			97%	5% pebbles & cobbles
															5-6.	apparent layering @ 12.50m @ 35° CA.	
										13.00	14.50	1.50	056194			99%	13.20m - 5cm boulders of Qz Brx with fine st
															3.	13.57 - 14.50m large boulder of intensely altered Qpp? Brx. Clay matrix green altered (smectite?) pebbles & cobbles Qz Brx, rhy, f.g light grey thin laminated chart. An intensely altered breccia boulder held together in the fill?	
																	Upper CN @ 45°C, lower CN @ 7°C.
										14.50	16.00	1.50	056195			97%	Tiel 15.60m - 10cm boulder light grey green Qz breccia. Visible on cutting - <del>fine</del> fine lamination sub-parallel to core Axis

Hole No. CGK-410-1

Page No. 2 of 10

Footage		Rock Type	Alteration							Assays						% RCVRY	Description
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
										16.00	17.50	1.50	56196			95%	Till - 5% pebbles & cobbles.
										-	3-4						<del>QZ</del> pebble cong., shale, altered felsic volc fr ≤ 8ft.
										17.50	19.00	1.50	56197			99%	Till
																5	17.9 - 18.65m accumulation of boulders with some clay till partings and seams. Green altered brecciales felsic volcs-porphry breccias.
										19.00	20.50	1.50	56198			99%	Till - 5-7% pebbles to cobbles
																5	19.55m - 10 cm boulder dark grey mafic volc. with fine white calcite veinlets
										20.50	21.15	0.65	56199			100%	Till - Seds pebbles cobbles - 10-12%
																5	CN @ 38°C A.
21.15	21.63	SEDS															Moderately well consolidated and lithified interbedded sandstone, conglomerate and black mud(stone). Sandstone generally poorly sorted occasionally bedded dark to medi grey. Polymictic conglomerate abundant wh QZ pebbles poorly sorted in sandy matrix. Mud(stone) sections may be rock openings or cracks filled with clay till, occas contain coal fragments. Part of Large Scale Fault zone
20.80	65.50	FLT Z															Most intense part of fault zone

Footage		Rock Type	Alteration							Assays							Description
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm	% RCVRY	
										21.15	22.65	1.50	56200			98%	Poorly sorted sst. - irregularly fragmented 5 (bedrock surface) with mucky seams Mucaceous, weathered
										22.65	24.15	1.50	56201			100%	Conglomerate Lower CN @ 68° CN
										3-4							Qz pebble rich chaotic, sandy matrix weathering (mud seams) (crumbly). Shale argillite and SST pebbles.
										24.15	25.65	1.50	56202			100%	Very poorly sorted SST grades to Qz pebble 5 conglomerate weathered & somewhat broken 25° C4 on graded bedding probably disrupted fragment. SST is mucaceous
										25.65	27.15	1.50	56203			99%	Polymictic Congl. - Chaotic abundant 4 white Qz pebbles to cobbles. Decreased weathering. Black carbonaceous partings or seams <sup>irregular</sup> 30° C4 lower CN
										27.15	28.65	1.50	56204			95%	SST → Conglomerate 4 27.40 - 28.00m. irregular fractures filled with dark grey mud and pebbles. 1-10cm sub-parallel to core to 45° on fractures mud/clay is carbonaceous. 47° C4 carbonaceous cong - sst - cong.
										28.65	30.15	1.50	56205			100%	Interbedded Congl & SANDSTONE 4-5 cong - sst - cong. SST 29.15 - 24.65m. dark grey massive - mucaceous mud seams dark grey. fine white/brown calcite?

Footage From (m)	To (m)	Rock Type	Alteration						Assays						% RCVRY	Description	
			S	A	C	Se	Py	Dv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
										30.15	31.65	1.50	56206			85%	30.80 - 31.20m fault <sup>mn</sup> clay seam.
															5	30.15 - 30.80m Cong.	
																30.80 - 31.65m poorly sorted SST	
										31.65	33.15	1.50	56207			98%	31.80 - 33.35m mud filled fault fracture with frags of cong & SST. Si.
															4	Upper CN @ 30° CA Lower CN @ 23° CA.	
										33.15	34.65	1.50	56208			95%	33.35 - 33.50m - SST.
															5-6	33.50 - 34.30m - mud filled fault zone with frags cong., SST & coal	
																34.30 - 34.65m - Conglomerate	
										34.65	36.15	1.50	56209			99%	34.65 - 35.10 m - cong.
															5	35.10 - 35.40 m - mud fracture.	
																35.40 - 35.60 m - SST	
																35.60 - 36.05 m - mud filled fracture. low CN	
																36.05 - 36.15 m - cong.	
																CN on mud-filled fractures irregularly generally acute to CA.	
										36.15	37.65	1.50	56210			99%	Polyminic Congl.
															7	Mud-filled fractures	
																Upper CN irregular	
																@ 36.15 m - 3cm lower CA @ 32° CA.	
																@ 36.35 m - 7cm upper CA @ 34° CA lower ground.	

Footage		Rock Type	Alteration							Assays						% RCVRY	Description	Page No. 5 of 10
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm			
										37.65	39.15	1.50	56211	-	-	92%	37.65m - 37.95m - congl 6	
																37.95m - 38.05m - angular mud-filled fract. 38.05 - 38.35m - poorly sorted SST. Wavy calc. 38.35 - 39.25m - mud-filled crack with coar. rock frags generally sub-round larger frags sub-angular.		
										39.15	40.65	1.50	56212	-	-	39.30 - 39.60m - mud-filled fracture coarse sub-angular frags SST, congl, silt Sub-parallel 1cm seam to main mud		
																39.60 - 39.85m - poorly sorted SST 39.85 - 40.0m - mud-filled fracture upper CN @ 60° CT lower CN @ 43° CT		
																40.0 - 40.15m - SST with calcite stringer in dendritic distribution and angular in filling rhombs.		
																45° CT on 1cm stringer		
																40.15 - 40.65m - mud-filled fracture with coarse frags sub-angular. SST contain calcite stringer		
										40.65	42.15	1.50	56213	-	-	99%	Mud-filled fracture zone with fine to coarse frags predominantly SST 0/1cm with fine white calcite 50% fragments	

Footage		Rock Type	Alteration							Assays						% RCVRY	Description
From (m)	To (m)		S	A	C	Se	Py	'Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
										42.15	43.65	1.50	56214			97%	42.15 - 42.60m - Mud filled fractures cont'd. 6. - lower cal @ 22° CA
																	42.60 - 43.65 BRx dark grey SST mincous mud on hairline fractures and fine white calcite stringers.
										43.65	45.15	1.50	56215			100%	Clay-filled fracture zone with variable 5 size fragments of SST, conglomerate apparent layering $\approx$ 30° ca. Calcite stringers on frags. 50% frags.
										45.15	46.65	1.50	56216			97%	Fracture zone cont'd 4. 35% frags. calcite 46.50m - Deformed conglomerate dark grey wavy partings SST, cong. coal.
										46.65	48.15	1.50	56217			95%	FRACTURE ZONE CON'TD 5 46.65 - 47.05m Deformed polymictic cong. carbonate stringers in fragments.
										48.15	49.65	1.50	56218			98%	Fracture zones CON'TD 6-7 Dominantly dark grey micaceous SST BRx with abundant carbonate stringers 49.25 - 49.55m conglomerate carbonate frags. 49.60 - 49.75m coaly mud seam Upper cal cut @ 80° lower cal @ 65°.

Footage		Rock Type	Alteration						Assays						% RCVRY	Description	
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
										49.65	51.15	1.50	56219			100%	Dark grey, micaceous sandy siltstone
															5	50.00 - 50.30m - mud-filled fractures and BRx SST.	
																50.30 - 50.60m - silt + decreasing BRx lower Cn @ 55°C A mud seam on fracture	
																50.60 - 51.15m - polymictic conglomerate clast-supported sub-angular to sub-rounded clasts Qz, chl, arg, & zirconia, silt. Locally apparent layering of pebbles @ 40°C A.	
										51.15	52.65	1.50	56220			100%	Polyminic Conglomerate - no mud-filled fract.
															4	51.25 - 51.40m - wavy bedded SST. Upper Cn gradational bedding @ 52°C A. broken calcite stringer. @ 52.40m	
										52.65	54.15	1.50	56221			97%	Conglomerate to. 52.75m
															4-5	mud-filled fractures and BRx SST and conglomerate	
																54.15m - lower mud-filled fracture Cn @ 49°C Calcite strgr streaks in cong. & silt fragments	
										54.15	55.65	1.50	56222			100%	54.15 - 54.70m - cross bedded dark grey sst - rare co.
															6.	54.70 - 54.95m - mud-filled fracture. SST clasts. curvilinear BN's 10° - 45°C A.	
																54.95 - 55.50m - BRx SST - mud-filled fractures - calc.	
																55.30m - 55.65m - polymictic Congl. 54.90m 2cm. seam @ 30°	

Hole No. CGK-410-1

Page No. 8 of 10

Footage		Rock Type	Alteration							Assays						% RCVRY	Description
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
										55.65	57.15	1.50	56223			92%	Conglomerate grades to poorly sorted coarse SST and back to Congl. Micaceous Clay seam at 57.0m? Lost core.
										57.15	58.65	1.50	56224			100%	57.15 - 58.20m - cong. to coarse porphyroblast SST 4-5 58.20 - 58.65m - mud-filled fractures - clasts of SST. CA at CN - irregular $\approx 30^\circ$ weakly laminated mud @ $28^\circ$ . Carbonate (brown) stringers in sandy sections SST - cong. - micaceous
										58.65	60.15	1.50	56225			100%	Micaceous dark grey SST with Mud-seam 6 and BRX 58.65 - 58.75m - mud-filled fracture cont'd 58.83 - 59.0m - mud filled BRX - SST $35^\circ$ CA at 59.0m shape well defined 59.30 - 60.15m mud-filled fractures & SST BRX micaceous
										60.15	61.65	1.50	56226			98%	60.15 - 60.30m - dark grey SST calcite string. 5-6. moderate stinkwork 60.30 - 61.25m - SST BRX and dark grey mud-filled fractures - SST and coaly fragments calcite string stinkwork w/ SST frags. up to 7cm Upper CN "circular" $10-45^\circ$ cut. Lower CN irregular @ $60^\circ$ cut 60.92m - slope mud seam contact @ $45^\circ$ cut

Footage		Rock Type	Alteration							Assays						% RCVRY	Description
From (m)	To (m)		S	A	C	Se	Py	Qv	T	From (m)	To (m)	Width (m)	Sample No.	Au ppb	Ag ppm		
										61.65	63.15	1.50	56227			98%	61.65 - 62.05m polymictic cong. 6. 62.05 - 62.12m mud-filled fracture upper CN irregular @ 51° CA lower CN sharp @ 32° CA 62.12 - 62.65m conglomerate 62.65 - 63.15m mud seam with sst and congl frags upper CN irregular @ 7° CA
										63.15	64.65	1.50	56228			98%	Mud-filled fracture with cong and 6. SST clasts up to 10 cm sub-round to angular. ~ 50%. Calcite stgs in SST &
										64.65	66.15	1.50	56229			95%	mud-filled fracture w/ SST & cong clsts 6. 65.85 - 66.15m large poorly sorted SST clast 5-7% calcite stgrs & streak
										66.15	67.75	1.60	56230			97%	mud-filled fracture cont'd. w/ cong & SST 6 frags. END of FAULT 67.00m sand seam fine iron brown limonite grains 5-7% calcite stgs in SST frags. Lower CN @ 40° CA - sharp.
										67.75	69.50	1.75	56231			99%	Polymineral QZ pebble conglomerate 6. Weathering - from proximity to fault zone 86.10 - 86.25m - mud-filled fracture CN well defined with graphitic surfaces Upper CN 45° CA lower at 32° CA opposite

Hole No. CG K-410-1

Page No. 10 of 10

## **APPENDIX 4**

### **ANALYTICAL RESULTS**

**CGK – 410 -1: 056193 - 056232**



**ALS Chemex**  
 Aurora Laboratory Services Ltd  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brookbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: CARLOS, ALLEN

275 ALSEK RD.  
 WHITEHORSE, YT  
 Y1A 4T1

A0128

Comments: ATTN: ALLEN CARLOS

**CERTIFICATE**

**A0128210**

(TFI) - CARLOS, ALLEN

Project: CANYON GOLD  
 P.O. #:

Samples submitted to our lab in Vancouver, BC.  
 This report was printed on 16-NOV-2001.

**SAMPLE PREPARATION**

METHOD CODE	NUMBER SAMPLES	DESCRIPTION
3290	84	Ring 2000 g to approx -150 mesh
STO-21	84	Reject Storage-First 90 Days
LOG-22	84	Samples received without barcode
CRU-31	84	Crush to 70% minus 2mm
SPL-21	84	Splitting Charge

\* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

**ANALYTICAL PROCEDURES 1 of 2**

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
WEI-21	84	Weight of received sample	BALANCE	0.01	1000.0
Au-AA24	84	Au ppb: Fuse 50 g sample	FA-AAS	5	10000
Ag-MS41	84	Ag ppm: ICP + ICP-MS package	ICP-MS/ICP	0.01	100.0
Al-MS41	84	Al %: ICP + ICP-MS package	ICP	0.01	15.00
As-MS41	84	As ppm: ICP + ICP-MS package	ICP-MS/ICP	0.1	10000
B-MS41	84	B ppm: ICP + ICP-MS package	ICP	10	10000
Ba-MS41	84	Ba ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
Be-MS41	84	Be ppm: ICP + ICP-MS package	ICP	0.05	100.0
Bi-MS41	84	Bi ppm: ICP + ICP-MS package	ICP-MS/ICP	0.01	10000
Ca-MS41	84	Ca %: ICP + ICP-MS package	ICP	0.01	15.00
Cd-MS41	84	Cd ppm: ICP + ICP-MS package	ICP-MS/ICP	0.01	500
Ce-MS41	84	Ce ppm: ICP + ICP-MS package	ICP-MS	0.02	500
Co-MS41	84	Co ppm: ICP + ICP-MS package	ICP-MS/ICP	0.1	10000
Cr-MS41	84	Cr ppm: ICP + ICP-MS package	ICP	1	10000
Cs-MS41	84	Cs ppm: ICP + ICP-MS package	ICP-MS	0.05	500
Cu-MS41	84	Cu ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
Fe-MS41	84	Fe %: ICP + ICP-MS package	ICP	0.01	15.00
Ga-MS41	84	Ga ppm: ICP + ICP-MS package	ICP-MS/ICP	0.05	10000
Ge-MS41	84	Ge ppm: ICP + ICP-MS package	ICP-MS	0.05	500.0
Hf-MS41	84	Hf ppm: ICP + ICP-MS package	ICP-MS	0.02	500.0
Hg-MS41	84	Hg ppm: ICP + ICP-MS package	ICP-MS/ICP	0.01	10000
In-MS41	84	In ppm: ICP + ICP-MS package	ICP-MS	0.005	500.00
K-MS41	84	K %: ICP + ICP-MS package	ICP	0.01	10.00
La-MS41	84	La ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
Li-MS41	84	Li ppm: ICP + ICP-MS package	ICP-MS	0.1	500
Mg-MS41	84	Mg %: ICP + ICP-MS package	ICP	0.01	15.00
Mn-MS41	84	Mn ppm: ICP + ICP-MS package	ICP	5	10000
Mo-MS41	84	Mo ppm: ICP + ICP-MS package	ICP-MS/ICP	0.05	10000
Na-MS41	84	Na %: ICP + ICP-MS package	ICP	0.01	10.00
Nb-MS41	84	Nb ppm: ICP + ICP-MS package	ICP-MS	0.05	500.0
Ni-MS41	84	Ni ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
P-MS41	84	P ppm: ICP + ICP-MS package	ICP	10	10000
Pb-MS41	84	Pb ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
Rb-MS41	84	Rb ppm: ICP + ICP-MS package	ICP-MS	0.1	500
Re-MS41	84	Re ppm: ICP + ICP-MS package	ICP-MS	0.001	50.0



# ALS Chemex

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Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
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PHONE: 604-984-0221 FAX: 604-984-0218

To: CARLOS, ALLEN

275 ALSEK RD.  
WHITEHORSE, YT  
Y1A 4T1

A012821

Comments: ATTN: ALLEN CARLOS

## CERTIFICATE

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## ANALYTICAL PROCEDURES 2 of 2

METHOD CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
S-MS41	84	S %: ICP + ICP-MS package	ICP	0.01	10.00
Sb-MS41	84	Sb ppm: ICP + ICP-MS package	ICP-MS/ICP	0.05	10000
Sc-MS41	84	Sc ppm: ICP + ICP-MS package	ICP-MS/ICP	0.1	10000
Se-MS41	84	Se ppm: ICP + ICP-MS package	ICP-MS	0.2	1000
Sn-MS41	84	Sn ppm: ICP + ICP-MS package	ICP-MS	0.2	500
Sr-MS41	84	Sr ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
Ta-MS41	84	Ta ppm: ICP + ICP-MS package	ICP-MS	0.01	500.0
Te-MS41	84	Te ppm: ICP + ICP-MS package	ICP-MS	0.01	500
Th-MS41	84	Th ppm: ICP + ICP-MS package	ICP-MS	0.2	500
Ti-MS41	84	Ti %: ICP + ICP-MS package	ICP	0.01	10.00
Tl-MS41	84	Tl ppm: ICP + ICP-MS package	ICP-MS/ICP	0.02	10000
U-MS41	84	U ppm: ICP + ICP-MS package	ICP-MS/ICP	0.05	10000
V-MS41	84	V ppm: ICP + ICP-MS package	ICP	1	10000
W-MS41	84	W ppm: ICP + ICP-MS package	ICP-MS/ICP	0.05	10000
Y-MS41	84	Y ppm: ICP + ICP-MS package	ICP-MS	0.05	500.0
Zn-MS41	84	Zn ppm: ICP + ICP-MS package	ICP	2	10000
Zr-MS41	84	Zr ppm: ICP + ICP-MS package	ICP-MS	0.5	500



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To. CARLOS, ALLEN

275 ALSEK RD.  
 WHITEHORSE, YT  
 Y1A 4T1

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 P.O. Number :  
 Account : TFI

## CERTIFICATE OF ANALYSIS A0128210

SAMPLE	PREP CODE	Weight Kg	Au ppb FA+AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm
056191	82909402	2.06	< 5	0.67	0.48	9.7	< 10	135.4	4.15	0.06	5.42	0.16	43.6	33.5	34	3.95	32.4	6.54	1.55	0.05
056192	82909402	2.24	< 5	0.79	0.36	6.0	< 10	77.8	2.85	0.44	3.21	0.20	90.9	6.5	7	2.25	19.8	2.49	1.60	0.05
056193	82909402	1.60	< 5	0.68	2.78	14.1	< 10	530.7	1.45	0.25	1.83	0.46	48.0	18.5	45	2.05	70.1	3.93	8.10	0.05
056194	82909402	1.82	< 5	0.59	2.39	10.7	< 10	497.6	0.85	0.22	3.04	0.42	35.6	19.4	44	1.20	103.0	3.75	6.40	0.05
056195	82909402	1.56	< 5	0.45	2.49	13.1	< 10	793.6	1.05	0.21	2.38	0.36	45.7	17.5	46	1.50	58.2	3.74	6.75	0.05
056196	82909402	1.44	< 5	0.44	2.74	15.8	< 10	631.7	1.40	0.22	2.06	0.42	51.4	19.1	49	1.65	60.4	4.09	7.65	0.05
056197	82909402	1.74	< 5	0.34	1.92	12.2	< 10	587.5	1.15	0.19	2.28	0.32	39.5	15.5	34	1.50	56.7	3.43	5.40	0.05
056198	82909402	1.74	< 5	0.34	2.57	12.0	< 10	526.3	1.65	0.21	1.91	0.42	45.7	19.7	66	1.70	52.3	4.13	7.15	0.05
056199	82909402	0.84	5	0.39	1.25	9.1	< 10	481.6	1.35	0.25	0.64	0.43	30.2	15.7	23	2.00	62.2	3.49	3.30 < 0.05	
056200	82909402	1.80	< 5	0.38	0.72	9.3	< 10	356.6	0.95	0.19	0.30	0.34	30.4	7.1	13	2.05	66.8	3.11	1.90 < 0.05	
056201	82909402	1.74	< 5	0.36	0.35	5.2	< 10	207.6	0.45	0.08	0.55	0.12	12.95	4.9	7	0.85	65.9	1.91	0.90 < 0.05	
056202	82909402	1.90	< 5	0.39	0.39	8.9	< 10	247.4	0.65	0.13	0.88	0.18	18.55	6.4	9	1.10	76.0	2.73	1.00 < 0.05	
056203	82909402	1.82	< 5	0.50	0.37	6.9	< 10	225.8	0.55	0.10	0.51	0.15	13.40	7.6	7	0.80	98.1	1.99	0.95 < 0.05	
056204	82909402	1.70	< 5	0.85	0.55	6.8	< 10	314.4	0.90	0.15	0.89	0.22	25.6	11.3	9	1.30	51.3	2.52	1.50 < 0.05	
056205	82909402	1.78	< 5	0.88	0.96	5.7	< 10	292.8	0.90	0.13	0.86	0.22	23.6	9.4	14	1.15	52.6	3.14	2.75 < 0.05	
056206	82909402	1.68	< 5	0.67	0.49	9.4	< 10	282.0	0.85	0.13	0.44	0.17	19.00	7.9	9	1.25	96.3	2.39	1.30 < 0.05	
056207	82909402	1.70	< 5	0.62	1.36	13.2	< 10	445.6	1.75	0.27	0.37	0.52	27.2	16.4	25	2.30	53.4	3.60	3.85 < 0.05	
056208	82909402	1.64	< 5	0.55	1.22	14.7	< 10	457.2	1.30	0.22	0.62	0.34	21.4	11.9	23	1.80	60.1	2.84	3.45 < 0.05	
056209	82909402	1.66	< 5	0.41	1.30	6.4	< 10	353.2	1.20	0.20	0.67	0.30	24.5	8.7	19	1.90	28.4	2.56	3.75 < 0.05	
056210	82909402	1.68	< 5	0.30	0.58	8.0	< 10	146.6	0.30	0.05	1.68	0.07	9.20	3.6	10	0.45	29.8	1.41	1.50 < 0.05	
056211	82909402	1.54	< 5	0.83	1.51	10.2	< 10	466.0	1.20	0.21	0.48	0.30	18.85	9.5	22	1.60	26.6	2.93	4.35 < 0.05	
056212	82909402	1.68	< 5	0.59	1.71	6.8	< 10	420.0	1.15	0.19	0.77	0.32	22.6	10.7	23	1.55	25.6	3.55	5.20 < 0.05	
056213	82909402	1.80	< 5	0.55	1.83	6.3	< 10	300.0	1.20	0.21	0.58	0.36	23.0	11.8	27	1.65	31.6	3.60	5.25 < 0.05	
056214	82909402	1.76	< 5	0.48	1.62	10.1	< 10	484.6	1.15	0.20	0.30	0.29	26.5	10.0	26	1.35	26.8	3.15	4.70 < 0.05	
056215	82909402	1.94	< 5	0.27	1.53	7.3	< 10	396.8	1.20	0.24	0.54	0.41	27.9	12.6	24	1.70	27.2	3.10	4.30 < 0.05	
056216	82909402	1.88	< 5	0.41	1.50	7.8	< 10	340.0	1.40	0.25	1.16	0.39	29.6	16.3	27	1.90	30.2	2.82	4.25 < 0.05	
056217	82909402	1.70	< 5	0.40	0.96	7.3	< 10	330.0	1.15	0.19	0.39	0.27	23.5	10.7	17	1.65	34.8	2.44	2.65 < 0.05	
056218	82909402	1.92	< 5	0.38	1.44	8.2	< 10	470.0	1.10	0.20	0.30	0.31	27.8	11.9	21	1.45	27.8	2.97	4.15 < 0.05	
056219	82909402	2.06	< 5	0.38	1.16	7.1	< 10	394.6	0.85	0.15	0.52	0.21	24.6	7.4	18	1.00	25.8	2.46	3.45 < 0.05	
056220	82909402	1.74	< 5	0.29	0.48	10.4	< 10	254.0	0.35	0.08	0.61	0.08	12.95	3.5	9	0.40	13.4	1.07	1.25 < 0.05	
056221	82909402	1.94	< 5	0.39	1.34	5.9	< 10	310.0	1.50	0.23	0.51	0.39	26.8	13.4	22	1.55	42.0	3.11	4.00 < 0.05	
056222	82909402	1.96	< 5	0.35	1.47	9.2	< 10	412.2	1.10	0.17	0.53	0.32	22.9	14.7	25	1.20	33.2	3.23	4.65 < 0.05	
056223	82909402	1.44	< 5	0.25	0.64	8.1	< 10	256.4	0.50	0.08	0.44	0.10	8.86	3.9	12	0.65	24.0	1.51	1.85 < 0.05	
056224	82909402	1.94	< 5	0.23	1.20	6.0	< 10	293.2	0.85	0.16	0.38	0.55	18.10	5.4	19	1.30	22.4	2.63	3.35 < 0.05	
056225	82909402	1.98	10	0.34	1.63	3.5	< 10	370.0	1.65	0.26	0.25	0.44	32.8	13.5	24	1.70	38.4	3.08	4.75 < 0.05	
056226	82909402	1.86	< 5	0.71	1.54	6.0	< 10	357.2	1.55	0.20	0.57	0.36	30.1	13.4	23	1.20	41.0	3.46	4.50 < 0.05	
056227	82909402	1.82	< 5	0.53	1.51	9.1	< 10	290.6	1.20	0.20	0.61	0.25	23.8	13.0	21	1.40	30.2	3.47	4.45 < 0.05	
056228	82909402	1.82	< 5	0.49	1.37	7.7	< 10	367.4	1.45	0.23	0.41	0.44	32.9	16.1	22	1.40	39.2	2.80	3.95 < 0.05	
056229	82909402	1.68	< 5	0.55	1.72	8.5	< 10	449.2	1.55	0.24	0.44	0.36	28.6	11.9	23	1.55	33.0	3.41	4.95 < 0.05	
056230	82909402	2.06	< 5	0.46	1.01	9.1	< 10	290.4	1.20	0.19	0.71	0.32	28.1	7.5	25	1.35	38.0	3.41	3.05 < 0.05	

CERTIFICATION



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To: CARLOS, ALLEN

275 ALSEK RD.  
 WHITEHORSE, YT  
 Y1A 4T1

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SAMPLE	PREP CODE	Weight		Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm
		Kg	FA+AA																		
056231	32909402	2.04	< 5	0.62	0.30	25.5	< 10	162.6	0.45	0.08	0.72	0.14	15.70	4.8	9	0.65	61.8	1.17	0.80	< 0.05	
056232	32909402	2.58	10	0.86	0.31	9.0	< 10	166.0	0.55	0.08	0.58	0.12	18.30	4.7	9	0.60	46.6	2.51	0.90	< 0.05	
056233	32909402	1.34	15	0.41	0.25	27.7	< 10	34.4	1.35	0.12	0.74	0.15	147.5	0.7	3	2.65	3.6	1.65	1.40	0.10	
056234	32909402	1.64	< 5	0.52	0.34	1.8	< 10	49.6	2.00	0.04	0.35	0.23	143.0	0.7	3	2.75	3.4	1.82	1.60	0.05	



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SAMPLE	PREP CODE	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na ppm	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm
056151	82909402	0.10	0.15	0.055	0.50	15.0	6.7	1.24	865	2.80	0.08	0.10	53.3	1660	11.6	18.0< 0.001	0.02	0.40	10.8	
056152	82909402	0.06	0.11	0.055	0.52	27.4	11.8	2.13	985	1.55	0.41	0.15	55.1	2120	7.4	23.8< 0.001	0.01	0.25	16.2	
056153	82909402	0.10	0.06	0.060	0.17	31.0	19.1	2.65	1255	2.10	0.77	0.25	62.9	2690	2.8	9.7< 0.001	0.01	0.25	17.7	
056154	82909402	0.10	0.16	0.060	0.25	12.4	14.1	2.03	910	6.90	0.23	0.05	46.4	1310	12.2	14.6< 0.001	0.10	0.35	12.0	
056155	82909402	0.14	0.09	0.075	0.23	37.8	5.9	0.56	570	2.05	0.20 < 0.05	9.2	460	22.2	11.9< 0.001	0.01	0.30	6.0		
056156	82909402	0.14	0.05	0.075	0.27	35.0	7.1	1.13	795	1.45	0.24	0.05	14.2	1310	21.2	15.2< 0.001	0.01	0.35	9.9	
056157	82909402	0.16	0.03	0.100	0.31	42.2	2.7	0.31	545	3.95	0.19	0.05	5.6	320	24.0	14.1< 0.001	0.01	0.20	4.2	
056158	82909402	0.18	0.04	0.100	0.30	42.6	2.3	0.32	585	3.75	0.19	0.05	5.4	300	26.2	13.6< 0.001	0.01	0.15	4.2	
056159	82909402	0.18	0.01	0.095	0.28	38.6	2.9	0.32	585	3.50	0.18	0.05	5.4	330	22.6	13.2< 0.001	0.01	0.10	4.2	
056160	82909402	0.16	0.02	0.075	0.34	32.6	7.3	1.66	930	0.55	0.22	0.05	21.2	1820	14.2	19.1< 0.001	0.02	0.05	11.2	
056161	82909402	0.22	0.03	0.080	0.42	36.6	4.0	0.60	625	3.20	0.15	0.05	10.4	830	34.4	25.7< 0.001	0.05	0.20	4.8	
056162	82909402	0.40	0.07	0.075	0.33	56.0	3.3	0.31	425	3.95	0.14	0.25	6.4	340	39.0	21.6< 0.001	0.03	0.10	2.7	
056163	82909402	0.32	0.04	0.095	0.30	50.2	3.9	0.56	865	3.55	0.16	0.20	16.2	1170	26.8	19.2< 0.001	0.07	0.20	5.7	
056164	82909402	0.28	0.08	0.080	0.33	45.6	3.7	0.39	775	3.10	0.15	0.20	14.0	1140	32.2	20.9< 0.001	0.24	0.35	4.0	
056165	82909402	0.38	0.04	0.080	0.30	68.2	2.6	0.20	390	5.00	0.11	0.20	3.8	80	41.2	18.8< 0.001	0.06	0.15	1.8	
056166	82909402	0.64	0.03	0.085	0.33	80.6	2.6	0.21	415	4.55	0.11	0.25	4.0	220	42.0	22.4< 0.001	0.10	0.30	1.9	
056167	82909402	0.32	0.04	0.065	0.28	56.8	2.7	0.29	540	3.70	0.12	0.20	8.4	470	30.4	17.6< 0.001	0.06	0.15	2.7	
056168	82909402	0.30	0.03	0.075	0.32	61.4	3.1	0.30	565	2.85	0.12	0.20	9.6	540	35.6	23.2< 0.001	0.08	0.20	3.0	
056169	82909402	0.30	0.03	0.070	0.35	76.6	3.3	0.15	385	2.70	0.13	0.20	2.0	60	45.6	26.6< 0.001	0.04	0.05	1.6	
056170	82909402	0.18	0.06	0.070	0.28	35.8	8.7	1.14	800	1.50	0.24	0.10	16.8	1390	21.6	17.7< 0.001	0.01	0.35	7.6	
056171	82909402	0.18	0.04	0.060	0.28	24.4	10.1	1.45	910	2.60	0.20	0.10	28.2	1250	22.6	19.8< 0.001	0.11	0.40	7.2	
056172	82909402	0.16	0.02	0.035	0.37	10.4	3.4	0.37	410	7.00	0.09	0.05	22.4	470	23.6	31.0< 0.002 < 0.01	0.10	2.6		
056173	82909402	0.56	0.03	0.080	0.26	56.4	2.8	0.23	695	3.90	0.11	0.45	9.8	480	32.8	20.3< 0.001 < 0.01	0.15	3.1		
056174	82909402	0.44	0.03	0.085	0.23	57.6	2.1	0.19	430	4.00	0.10	0.30	6.6	330	40.0	16.7< 0.001	0.01	0.20	2.3	
056175	82909402	0.40	0.02	0.070	0.22	56.2	2.3	0.24	530	3.60	0.11	0.20	8.4	580	36.4	15.4< 0.001	0.03	0.10	2.5	
056176	82909402	0.34	0.03	0.080	0.25	52.4	3.4	0.40	830	2.85	0.14	0.25	15.8	1120	34.4	17.7< 0.001	0.08	0.20	4.1	
056177	82909402	1.92	0.16	0.055	0.74	43.8	4.8	0.14	265	4.95	0.11	4.05	2.8	100	49.8	73.5< 0.001	0.04	0.25	1.8	
056178	82909402	0.44	0.06	0.100	0.28	64.4	2.9	0.17	430	4.00	0.10	0.60	5.6	200	41.6	22.2< 0.001	0.06	0.15	1.9	
056179	82909402	0.24	0.06	0.065	0.28	44.6	5.5	0.95	1110	2.05	0.15	0.35	29.0	1600	24.2	21.2< 0.001	0.06	0.30	9.0	
056180	82909402	0.32	0.06	0.065	0.24	58.6	3.1	0.32	535	3.20	0.12	0.25	8.6	520	32.0	17.0< 0.001	0.04	0.20	3.0	
056181	82909402	0.26	0.07	0.070	0.24	49.8	4.5	0.57	755	2.65	0.16	0.20	20.6	1190	28.6	17.6< 0.001	0.06	0.25	4.7	
056182	82909402	0.22	0.07	0.065	0.25	49.0	5.8	0.82	945	2.85	0.16	0.15	19.4	1110	23.8	16.5< 0.001	0.05	0.30	6.9	
056183	82909402	0.58	0.12	0.060	0.24	51.6	6.3	0.76	895	2.45	0.17	0.30	26.0	1410	19.6	17.1< 0.001	0.03	0.15	5.9	
056184	82909402	0.38	0.08	0.055	0.28	54.4	7.1	0.59	880	1.70	0.19	0.20	17.8	750	35.0	20.0< 0.001	0.03	0.15	4.5	
056185	82909402	0.20	0.07	0.050	0.27	22.2	8.2	1.20	1520	2.05	0.17	0.15	49.6	2260	4.8	18.0< 0.001	0.05	0.25	11.9	
056186	82909402	0.20	0.08	0.050	0.23	22.4	8.4	1.38	1705	1.05	0.15	0.15	51.6	2110	5.2	15.2< 0.001	0.15	0.40	12.2	
056187	82909402	0.16	0.09	0.055	0.32	24.8	25.1	1.84	1605	0.45	0.22	0.10	47.0	1950	3.4	25.7< 0.001	0.03	0.25	15.7	
056188	82909402	0.14	0.14	0.050	0.27	23.8	9.6	1.13	1465	1.85	0.16	0.05	53.3	2240	4.4	17.9< 0.001	0.08	0.30	12.8	
056189	82909402	0.16	0.09	0.050	0.24	20.0	8.4	1.21	2330	1.50	0.16	0.10	48.8	2160	16.8	15.2< 0.001	0.12	0.40	12.9	
056190	82909402	0.12	0.05	0.060	0.27	21.0	10.5	1.16	1665	1.10	0.18	0.05	45.0	2280	13.4	18.6< 0.001	0.08	0.30	12.3	



# ALS Chemex

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To: CARLOS, ALLEN

\*\*

275 ALSEK RD.  
 WHITEHORSE, YT  
 Y1A 4T1

Project: CANYON GOLD  
 Comments:

Page Number : 2-B  
 Total Pages : 3  
 Certificate Date: 16-NOV-2000  
 Invoice No. : I0128210  
 P.O. Number :  
 Account : TFI

## CERTIFICATE OF ANALYSIS A0128210

SAMPLE	PREP CODE	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm
056191	32909402	0.14	0.04	0.045	0.25	19.8	8.1	1.16	1770	1.00	0.16	0.05	43.2	1890	6.4	17.0 < 0.001	0.11	0.35	11.4	
056192	32909402	0.30	0.11	0.050	0.23	49.0	3.8	0.32	545	5.30	0.13	0.15	8.8	450	37.8	15.5 < 0.001	0.04	0.20	3.3	
056193	32909402	0.16	0.14	0.045	0.51	26.4	30.0	1.04	760	1.50	0.39	0.05	55.6	940	24.0	22.6 < 0.001	0.12	0.40	7.0	
056194	32909402	0.12	0.37	0.030	0.34	17.0	19.3	1.37	805	1.10	0.27	0.05	37.4	540	52.4	14.6 < 0.001	0.33	0.35	9.1	
056195	32909402	0.12	0.15	0.035	0.40	21.4	25.5	1.14	750	1.35	0.34	0.05	47.4	850	25.0	17.5 < 0.001	0.18	0.40	7.2	
056196	32909402	0.12	0.19	0.040	0.45	24.0	29.5	1.26	780	1.65	0.38	0.05	52.2	980	24.8	19.8 < 0.001	0.19	0.45	7.9	
056197	32909402	0.12	0.27	0.030	0.28	18.4	20.6	1.05	715	1.25	0.30 < 0.05	37.2	670	26.8	13.0 < 0.001	0.21	0.45	6.8		
056198	32909402	0.10	0.10	0.050	0.40	21.0	27.7	1.23	745	2.00	0.36 < 0.05	57.4	940	22.2	17.1 < 0.001	0.11	0.35	8.1		
056199	32909402	0.10	0.05	0.050	0.37	13.8	8.1	0.58	590	2.00	0.27 < 0.05	48.4	750	26.8	15.5 < 0.001	0.04	0.25	5.7		
056200	32909402	0.08	0.01	0.040	0.24	14.2	4.4	0.47	260	0.55	0.22 < 0.05	34.0	140	26.6	10.1 < 0.001	0.01	0.05	4.1		
056201	32909402	0.10	0.01	0.015	0.15	5.8	1.7	0.27	275	0.60	0.15 < 0.05	14.6	420	15.4	6.0 < 0.001 < 0.01	0.15	0.15	2.3		
056202	32909402	0.10	0.01	0.025	0.16	8.4	2.0	0.41	415	0.75	0.17 < 0.05	23.0	220	21.2	6.8 < 0.001	0.02	0.25	3.1		
056203	32909402	0.08	0.02	0.020	0.15	6.2	2.0	0.25	305	1.10	0.17 < 0.05	19.6	250	15.6	5.8 < 0.001	0.01	0.35	2.4		
056204	32909402	0.16	0.08	0.035	0.19	9.6	3.5	0.37	465	2.00	0.20	0.20	31.6	320	21.8	8.9 < 0.001	0.02	0.30	3.5	
056205	32909402	0.20	0.06	0.025	0.17	10.4	9.9	0.45	400	1.00	0.16	0.15	30.4	1390	21.6	8.4 < 0.001	0.01	0.30	3.3	
056206	32909402	0.10	0.04	0.025	0.18	8.6	3.1	0.30	540	0.80	0.19	0.10	22.0	360	16.6	8.6 < 0.001	0.03	0.25	2.7	
056207	32909402	0.10	0.05	0.050	0.24	12.2	15.3	0.55	605	1.85	0.25	0.05	54.5	520	30.0	12.4 < 0.001	0.04	0.35	3.9	
056208	32909402	0.10	0.04	0.035	0.21	9.6	13.4	0.44	495	1.40	0.21	0.05	42.8	320	26.4	10.5 < 0.001	0.04	0.35	3.0	
056209	32909402	0.08	0.03	0.030	0.21	11.0	13.5	0.39	320	1.05	0.20	0.05	32.4	210	21.4	10.7 < 0.001	0.02	0.25	2.6	
056210	32909402	0.06 < 0.01 < 0.005	0.12	4.2	5.2	0.18	570	0.50	0.10	0.05	13.6	260	8.8	5.4 < 0.001	0.01	0.30	1.4			
056211	32909402	0.06	0.04	0.040	0.21	8.4	17.0	0.42	275	0.80	0.19 < 0.05	38.4	290	26.4	10.3 < 0.001	0.02	0.25	2.9		
056212	32909402	0.06	0.04	0.035	0.18	10.2	19.8	0.49	490	1.15	0.17 < 0.05	38.6	850	24.4	9.3 < 0.001	0.01	0.20	2.9		
056213	32909402	0.06	0.03	0.040	0.28	10.4	18.6	0.49	425	1.15	0.18 < 0.05	42.0	260	27.8	13.1 < 0.001	0.01	0.20	3.3		
056214	32909402	0.06	0.03	0.040	0.22	11.8	17.2	0.50	260	0.80	0.19 < 0.05	36.6	360	25.8	10.6 < 0.001	0.02	0.20	2.8		
056215	32909402	0.08	0.04	0.050	0.24	11.8	17.1	0.48	430	2.00	0.19	0.05	40.8	490	29.4	9.4 < 0.001	0.03	0.45	4.7	
056216	32909402	0.06	0.03	0.045	0.24	13.2	14.9	0.48	665	2.15	0.23 < 0.05	50.3	470	26.8	11.8 < 0.001	0.03	0.35	3.1		
056217	32909402	0.06	0.04	0.035	0.22	10.6	8.2	0.38	330	1.15	0.20 < 0.05	30.2	210	21.4	10.9 < 0.001	0.03	0.30	2.8		
056218	32909402	0.04	0.02	0.040	0.24	12.2	13.9	0.48	315	2.25	0.17 < 0.05	39.2	160	23.8	11.3 < 0.001	0.03	0.30	3.0		
056219	32909402	0.04	0.03	0.025	0.21	11.0	11.0	0.38	320	0.90	0.14 < 0.05	26.6	270	20.0	8.9 < 0.001	0.01	0.20	2.5		
056220	32909402	0.02	0.01	0.005	0.17	6.2	2.7	0.17	305	0.45	0.09 < 0.05	11.8	350	10.2	7.3 < 0.001	0.03	0.40	1.3		
056221	32909402	0.06	0.03	0.045	0.26	11.6	12.5	0.48	550	1.90	0.20 < 0.05	41.8	490	25.0	11.8 < 0.001	0.03	0.30	3.2		
056222	32909402	0.06	0.01	0.035	0.21	10.0	14.4	0.49	475	1.05	0.16 < 0.05	43.8	760	24.2	10.4 < 0.001	0.01	0.20	3.3		
056223	32909402	0.04	0.02	0.005	0.17	4.0	4.6	0.23	235	0.30	0.11 < 0.05	15.2	400	12.8	7.6 < 0.001	0.01	0.15	1.5		
056224	32909402	0.08	0.04	0.035	0.23	7.8	11.6	0.41	295	0.50	0.14 < 0.05	23.6	320	19.8	8.7 < 0.001	0.01	0.20	3.8		
056225	32909402	0.06	0.08	0.050	0.28	14.8	15.2	0.49	280	0.90	0.21 < 0.05	46.2	140	32.0	13.3 < 0.001	0.01	0.20	3.1		
056226	32909402	0.18	0.09	0.040	0.22	14.8	15.5	0.50	525	0.95	0.17	0.25	44.4	1330	29.2	9.5 < 0.001	0.02	0.25	7.7	
056227	32909402	0.12	0.06	0.030	0.20	11.6	16.0	0.47	650	1.25	0.16	0.15	39.6	940	23.2	9.3 < 0.001	0.02	0.25	6.3	
056228	32909402	0.10	0.05	0.045	0.24	15.6	13.1	0.46	405	1.85	0.19	0.10	47.8	500	24.4	9.9 < 0.001	0.01	0.25	6.5	
056229	32909402	0.10	0.07	0.045	0.37	13.8	14.5	0.50	415	1.45	0.22	0.10	40.4	320	31.4	14.8 < 0.001	0.01	0.20	7.4	
056230	32909402	0.12	0.06	0.040	0.14	13.4	12.0	0.44	640	2.85	0.17	0.10	32.2	610	24.8	6.8 < 0.001	0.01	0.20	6.1	



# ALS Chemex

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275 ALSEK RD.  
 WHITEHORSE, YT  
 Y1A 4T1

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 Invoice No. :I0128210  
 P.O. Number :  
 Account :TFI

Project: CANYON GOLD  
 Comments:

## CERTIFICATE OF ANALYSIS

A0128210

SAMPLE	PREP CODE	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc
		ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
056231	32909402	0.10	0.05	0.010	0.11	7.8	1.9	0.20	210	1.25	0.11	0.05	18.0	1120	12.8	5.2< 0.001	0.05	1.05	3.6	
056232	32909402	0.08	0.03	0.015	0.12	8.8	2.3	0.35	475	0.75	0.11	0.05	17.4	750	12.0	5.5< 0.001	0.01	0.35	4.5	
056233	32909402	0.28	0.03	0.050	0.28	67.8	0.8	0.03	440	3.65	0.03	0.20	1.0	100	47.6	18.9< 0.001	0.21	0.70	1.3	
056234	32909402	0.28	0.01	0.055	0.31	75.4	1.1	0.03	450	1.85	0.04	0.20	1.2	40	42.8	20.4< 0.001	0.05	0.25	2.4	

CERTIFICATION:



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275 ALSEK RD.  
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Project: CANYON GOLD  
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 Total Pages : 3  
 Certificate Date: 16-NOV-2  
 Invoice No. : I0128210  
 P.O. Number :  
 Account : TFI

## CERTIFICATE OF ANALYSIS

A0128210

SAMPLE	PREP CODE	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
056151	32909402	0.2	0.6	145.6 < 0.01	< 0.01	4.2 < 0.01	0.08	1.35	65	0.10	16.90	76	2.0		
056152	32909402	< 0.2	1.4	147.6	0.01	0.01	4.6	0.05	0.10	0.75	116	0.05	17.20	74	1.5
056153	32909402	0.2	1.2	448.0	0.01	< 0.01	5.0	0.11	0.02	0.55	136	< 0.05	18.20	74	2.5
056154	32909402	0.2	1.0	120.7	< 0.01	< 0.01	3.6	< 0.01	0.08	0.90	64	< 0.05	17.35	68	3.0
056155	32909402	0.2	1.8	99.1	0.01	< 0.01	3.8	< 0.01	0.02	0.90	21	0.05	24.45	74	2.5
056156	32909402	0.2	3.2	173.0	0.02	< 0.01	5.0	< 0.01	0.06	1.50	36	0.15	32.20	80	3.5
056157	32909402	0.2	1.0	55.5	< 0.01	< 0.01	3.8	< 0.01	0.06	0.75	14	< 0.05	19.20	86	3.0
056158	32909402	0.2	1.0	54.8	< 0.01	< 0.01	4.2	< 0.01	0.06	0.75	16	< 0.05	21.60	94	3.0
056159	32909402	0.2	1.0	48.0	< 0.01	< 0.01	5.2	< 0.01	0.06	0.70	14	< 0.05	19.40	88	3.5
056160	32909402	0.2	7.2	174.7	0.01	< 0.01	6.6	< 0.01	0.06	0.50	61	0.15	28.00	82	3.5
056161	32909402	0.2	4.4	108.1	0.01	< 0.01	5.6	< 0.01	0.14	0.75	29	0.15	28.35	96	5.5
056162	32909402	0.4	2.2	76.4	0.01	0.03	4.6	< 0.01	0.14	0.90	10	0.20	33.00	94	5.0
056163	32909402	0.6	1.6	95.9	0.01	0.03	5.2	< 0.01	0.10	0.70	35	0.20	37.20	132	5.5
056164	32909402	0.4	2.0	96.0	0.01	0.03	4.8	< 0.01	0.14	1.00	25	0.25	35.95	104	5.0
056165	32909402	0.4	1.8	65.5	0.01	0.01	4.2	< 0.01	0.14	1.10	5	0.15	34.85	100	6.5
056166	32909402	0.6	1.6	97.0	0.01	0.03	7.2	< 0.01	0.14	1.25	6	0.15	39.70	106	13.0
056167	32909402	0.4	1.2	78.3	0.01	0.01	4.8	< 0.01	0.10	0.95	12	0.15	34.50	80	6.5
056168	32909402	0.4	1.8	91.4	0.01	0.02	5.4	< 0.01	0.12	0.80	13	0.15	34.85	100	7.0
056169	32909402	0.6	3.4	84.8	0.01	0.02	4.8	< 0.01	0.14	0.95	3	0.10	37.55	96	6.0
056170	32909402	0.4	2.8	181.0	0.01	0.02	5.2	< 0.01	0.06	1.50	36	0.15	36.90	84	4.0
056171	32909402	0.4	4.8	169.8	0.03	0.02	8.0	< 0.01	0.08	0.85	39	0.75	30.20	86	5.0
056172	32909402	< 0.2	2.2	45.0	< 0.01	0.01	3.4	< 0.01	0.08	0.60	27	0.15	9.35	86	4.5
056173	32909402	0.4	1.6	81.4	0.01	0.02	9.6	< 0.01	0.08	1.20	13	0.20	36.90	94	15.0
056174	32909402	0.6	1.6	63.3	0.01	0.03	8.4	< 0.01	0.08	2.65	10	0.15	43.65	68	10.5
056175	32909402	0.4	1.0	70.0	0.01	0.02	7.6	< 0.01	0.08	0.95	12	0.15	37.20	104	10.5
056176	32909402	0.4	1.0	109.7	0.01	0.01	9.0	< 0.01	0.08	0.90	22	0.25	39.55	118	9.5
056177	32909402	0.6	4.2	48.6	0.03	0.03	29.8	< 0.01	0.34	5.60	4	0.60	54.65	66	35.0
056178	32909402	0.6	1.4	73.2	0.01	0.02	8.4	< 0.01	0.12	2.20	7	0.20	47.40	94	11.0
056179	32909402	0.6	2.0	154.5	0.03	0.02	10.8	< 0.01	0.12	0.65	48	0.30	41.90	116	7.5
056180	32909402	0.4	2.0	74.1	0.01	0.01	7.6	< 0.01	0.10	0.95	13	0.20	35.15	104	9.0
056181	32909402	0.6	1.8	105.7	0.01	0.03	8.6	< 0.01	0.10	0.80	28	0.25	38.55	96	8.0
056182	32909402	0.2	2.2	141.7	0.03	0.03	5.8	< 0.01	0.08	0.70	32	0.35	33.60	94	4.5
056183	32909402	0.2	1.4	143.6	0.02	< 0.01	8.4	< 0.01	0.10	0.70	33	0.25	37.40	100	7.0
056184	32909402	0.2	6.8	174.6	0.01	0.01	7.6	< 0.01	0.10	0.70	23	0.30	36.40	92	6.5
056185	32909402	0.2	1.4	162.1	0.01	< 0.01	8.0	< 0.01	0.10	0.10	86	0.20	35.60	106	2.5
056186	32909402	0.2	0.6	162.6	0.01	< 0.01	8.6	< 0.01	0.12	0.10	96	0.15	36.20	100	2.5
056187	32909402	0.2	0.2	202.1	0.01	0.01	6.0	< 0.01	0.14	0.15	74	0.05	38.10	88	2.5
056188	32909402	0.2	0.6	151.0	0.01	< 0.01	6.2	< 0.01	0.12	0.10	97	0.15	41.00	118	2.0
056189	32909402	0.2	1.6	217.4	0.01	< 0.01	7.8	< 0.01	0.12	0.10	100	0.20	44.80	124	2.0
056190	32909402	0.2	3.0	179.4	0.01	< 0.01	5.2	< 0.01	0.10	0.10	96	0.40	37.15	132	1.5



# ALS Chemex

Aurora Laboratory Services Ltd  
Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: CARLOS, ALLEN

\*\*

275 ALSEK RD.  
WHITEHORSE, YT  
Y1A 4T1

Project: CANYON GOLD  
Comments:

Page Number :2-C  
Total Pages :3  
Certificate Date: 16-NOV-20  
Invoice No. : I0128210  
P.O. Number :  
Account : TFI

## CERTIFICATE OF ANALYSIS

A0128210

SAMPLE	PREP CODE	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
056191	32909402	0.2	2.6	153.9	0.01 < 0.01		5.4 < 0.01		0.10	0.10	79	0.35	38.30	140	1.5
056192	32909402	0.2	3.2	198.6	0.01	0.01	5.4 < 0.01		0.10	1.10	14	0.20	30.20	82	4.5
056193	32909402	0.6	7.6	188.4 < 0.01	0.01		5.2 < 0.01		0.04	1.35	54	0.05	19.05	106	2.0
056194	32909402	0.6	10.6	222.4 < 0.01	0.02		4.6 < 0.01		0.06	1.25	56	0.05	14.35	90	1.5
056195	32909402	0.4	5.8	223.6 < 0.01	0.01		4.8 < 0.01		0.02	1.20	50	0.05	15.85	84	1.5
056196	32909402	0.4	5.4	198.8 < 0.01	0.01		5.6 < 0.01		0.02	1.25	54	0.05	17.70	94	1.5
056197	32909402	0.4	5.2	194.0 < 0.01	0.02		5.4 < 0.01		0.02	1.55	37	0.05	16.60	72	1.5
056198	32909402	0.4	4.0	185.0 < 0.01	0.02		5.2 < 0.01		0.02	1.00	53	0.05	16.95	96	1.5
056199	32909402	0.6	6.0	90.8 < 0.01	0.03		3.6 < 0.01		0.04	0.85	25	0.20	12.35	102	1.5
056200	32909402	0.2	7.8	68.1 < 0.01	0.01		2.6 < 0.01		0.06	0.75	15	0.15	6.60	92	1.0
056201	32909402	0.2	9.6	71.6 < 0.01 < 0.01			1.8 < 0.01		0.06	0.35	8	0.20	7.10	48	1.5
056202	32909402	0.2	10.8	89.1	0.01	0.01	2.2 < 0.01		0.08	0.45	11	0.20	7.00	60	1.5
056203	32909402	0.2	14.6	71.2 < 0.01	0.01		1.8 < 0.01		0.04	0.35	8	0.30	5.65	48	1.0
056204	32909402	0.2	6.0	108.2	0.01	0.04	1.8 < 0.01		0.06	0.55	11	0.30	9.05	70	1.0
056205	32909402	0.2	6.4	87.1	0.01	0.03	2.6 < 0.01		0.06	0.50	16	0.30	13.85	64	2.0
056206	32909402	0.2	13.4	72.5 < 0.01	0.02		1.8 < 0.01		0.08	0.45	10	0.25	7.25	58	1.5
056207	32909402	0.8	3.6	84.0 < 0.01	0.07		2.8 < 0.01		0.06	0.80	22	0.25	11.00	118	1.5
056208	32909402	0.6	6.0	83.5 < 0.01	0.06		2.0 < 0.01		0.06	0.65	18	0.25	8.05	88	1.0
056209	32909402	0.4	2.2	88.3 < 0.01	0.04		1.8 < 0.01		0.06	0.65	17	0.20	6.65	78	1.5
056210	32909402	< 0.2	4.0	96.2 < 0.01	0.02		1.2 < 0.01		0.06	0.25	7	0.15	5.15	22	0.5
056211	32909402	0.4	1.8	75.9	0.01	0.03	1.0 < 0.01		0.08	0.65	19	0.30	6.75	88	1.0
056212	32909402	0.4	2.0	81.2 < 0.01	0.03		1.2 < 0.01		0.06	0.65	22	0.25	10.20	84	1.5
056213	32909402	0.4	2.8	83.4 < 0.01	0.02		1.4 < 0.01		0.06	0.75	24	0.20	7.60	94	1.5
056214	32909402	0.6	1.8	60.0 < 0.01	0.03		1.2 < 0.01		0.06	0.75	22	0.20	7.05	86	1.5
056215	32909402	0.6	1.8	69.3	0.01	0.05	2.4 < 0.01		0.06	0.75	18	0.25	8.10	102	1.0
056216	32909402	0.6	1.4	99.2 < 0.01	0.05		1.4 < 0.01		0.08	0.90	21	0.25	11.10	98	1.5
056217	32909402	0.2	3.0	70.4 < 0.01	0.04		1.2 < 0.01		0.08	0.70	15	0.20	6.15	80	1.5
056218	32909402	0.2	2.0	60.6 < 0.01	0.02		1.2 < 0.01		0.08	0.65	20	0.20	6.15	84	1.5
056219	32909402	0.2	2.2	59.6 < 0.01	0.03		1.2 < 0.01		0.04	0.60	17	0.15	6.90	70	1.5
056220	32909402	< 0.2	1.4	47.8 < 0.01	0.01		1.0 < 0.01		0.10	0.40	7	0.15	5.30	30	1.5
056221	32909402	0.4	3.2	84.6 < 0.01	0.04		1.4 < 0.01		0.06	0.75	21	0.20	9.30	102	1.5
056222	32909402	0.6	2.6	77.1 < 0.01	0.03		1.4 < 0.01		0.06	0.60	23	0.20	9.10	96	2.0
056223	32909402	< 0.2	2.8	54.3 < 0.01	0.01		0.6 < 0.01		0.08	0.30	9	0.20	5.45	32	1.5
056224	32909402	0.2	2.0	49.4 < 0.01	0.02		1.8 < 0.01		0.04	0.50	14	0.25	5.60	70	1.0
056225	32909402	0.4	3.2	65.5 < 0.01	0.05		1.2 < 0.01		0.08	0.90	21	0.15	7.10	104	1.5
056226	32909402	0.6	3.8	75.7	0.01	0.05	3.6 < 0.01		0.06	0.65	21	0.35	14.85	92	1.5
056227	32909402	0.6	2.2	67.8	0.01	0.04	3.6 < 0.01		0.06	0.60	19	0.30	10.40	72	1.5
056228	32909402	0.6	3.0	69.3 < 0.01	0.03		3.4 < 0.01		0.04	0.75	19	0.25	9.05	106	1.5
056229	32909402	0.6	2.4	80.4	0.01	0.04	3.4 < 0.01		0.06	0.70	22	0.25	8.15	98	1.5
056230	32909402	0.6	3.2	81.2 < 0.01	0.04		3.2 < 0.01		0.04	0.60	15	0.70	10.75	78	1.5



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## CERTIFICATE OF ANALYSIS

A0128210

SAMPLE	PREP CODE	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
056231	32909402	0.2	7.0	72.8 < 0.01	0.03	2.2 < 0.01	0.08	0.30	6	0.40	10.55	44	1.5		
056232	32909402	0.2	5.6	63.5 < 0.01	0.03	2.8 < 0.01	0.04	0.30	11	0.25	10.60	42	1.5		
056233	32909402	0.2	0.4	20.6 0.01	0.01	6.6 < 0.01	0.30	1.15	< 1	0.10	30.45	70	5.0		
056234	32909402	0.2	0.6	22.4 0.01 < 0.01		8.8 < 0.01	0.12	0.95	2	0.10	32.60	90	8.5		

**APPENDIX 5**

**ENZYME LEACH  
AND  
CONSULTANTS RECOMMENDATION**

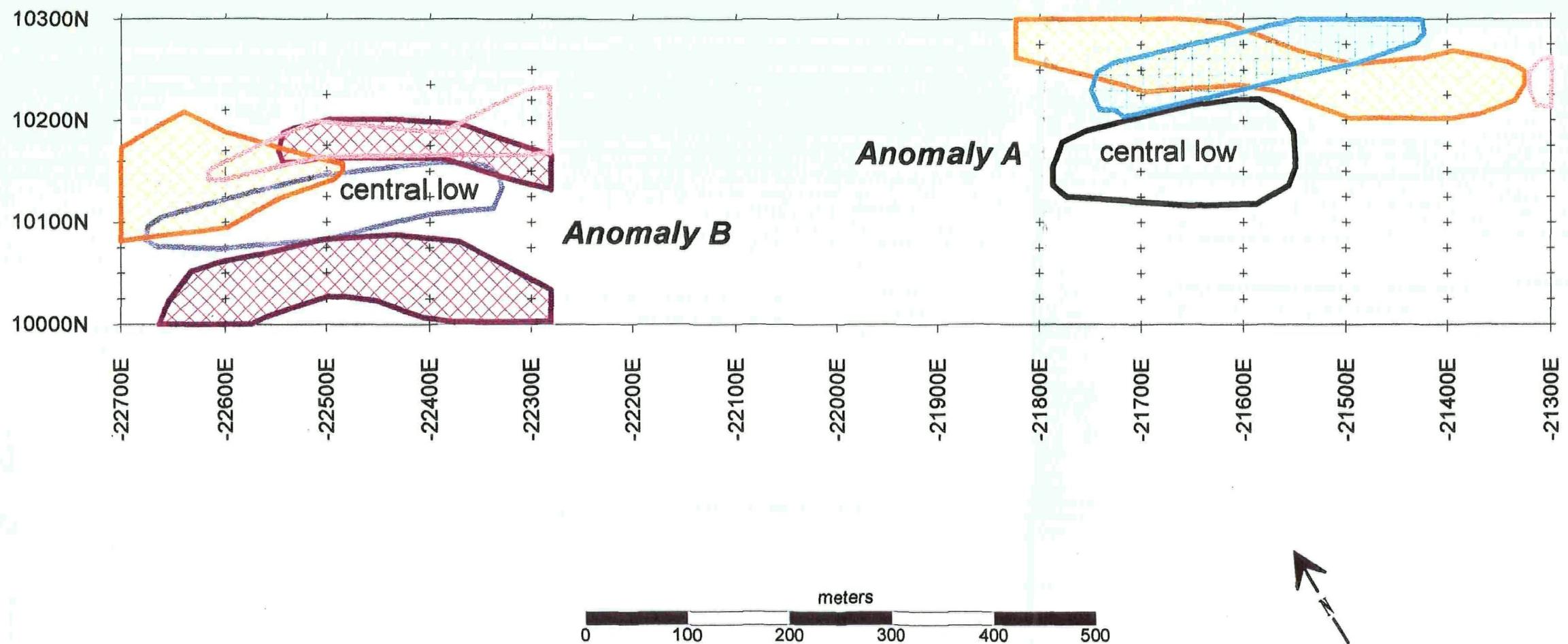
# Km. 410 Prospect - Canyon Gold Property

## Enzyme Leach<sup>SM</sup> data

### Summary Map

Drawn by: G.T. Hill

Date: March 19, 2001



data from 20875rpt



Enzyme Laboratories, Inc.

785 Andrew Lane, Reno, NV 89511  
775-849-2135, [hill@actlabs.com](mailto:hill@actlabs.com)

26 March 2001

Allen Carlos  
275 Alsek Road  
Whitehorse, Yukon Y1A 4T1

Dear Mr. Carlos,

I have reviewed the Enzyme Leach<sup>SM</sup> data from your Km-410 property at no cost to you. There are two identifiable oxidation anomalies within the soil survey, as shown in the figure below, Anomaly A and Anomaly B. The elements shown in this summary figure are only a small sampling of the elements that make up these patterns. The central low at Anomaly A is much better developed than that at Anomaly B. Most of the oxidation suite elements form higher-contrast patterns at Anomaly A than at Anomaly B. Also, some of the important elements one might expect to be associated with a gold deposit, including Au, As, and Bi in this area are most enriched at Anomaly A. Arsenic forms a strong apical high that coincides with the central low at Anomaly A. This has been seen in other studies including at Antimonio, Sonora, Mexico as shown in the enclosed brochure. These enrichments are significant enough to recommend drill testing of Anomaly A. One of the most significant features of Anomaly A is the preponderance of depletions within the central low among many elements, further emphasizing the robust nature of Anomaly A.

Anomaly B is less well developed and, these data suggest, should be considered as a secondary drill target, particularly if drilling at Anomaly A intersects mineralization. Many elements in Anomaly B form arcing highs that could represent nested halos centered to the south of the sampled area. The area to the south of Anomaly B should be investigated further.

As is typical with selective extraction data, many of the linear highs in this data set may represent faults in the subsurface. Finally, it is difficult to assess the swamp-covered region between the two soil grids, but the distributions of many elements suggest that Anomaly A is open to the west for some distance beneath this swampy ground.

Best Regards,

A handwritten signature in black ink, appearing to read "Gregory T. Hill".

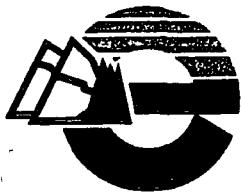
Gregory T. Hill  
Senior Geologist,  
Enzyme Leach<sup>SM</sup> Services Manager

**APPENDIX 6**

**CLAY MINERALOGY**

**IN**

**1992 PITS**



canada/yukon economic  
development agreement

Craig J.R. Hart  
Project Geologist  
Canada/Yukon Geoscience Office  
Yukon Territorial Government  
Box 2703 (F-3)  
Whitehorse, Yukon Y1A 2C6

February 17, 1995

Mr. Allen Carlos  
275 Alsek Road  
Whitehorse, Yukon

Dear Al:

We've just received the X-ray Diffraction results from the sample you submitted to us during last spring. The sample contained a mixture of quartz, albite, muscovite/sericite and kaolinite. Your main interest was in the clay mineralogy and I include the following information on kaolinite.



Kaolinite is among the most common of clay minerals and is formed by hydrothermal alteration or weathering of feldspar. When formed by hydrothermal alteration, are often accompanied by quartz, iron oxides, pyrite and muscovite. Kaolinite requires acidic conditions, low temperatures (120°-250°C) and felsic rocks in order to form. If potassium is available and temperatures are approximately 400°C, muscovite will form. The muscovite in this sample may have resulted from this alteration or may have been part of the original rock.

Kaolinite is part of the "acid" or "advanced argillic" alteration suites. Some researchers think that kaolinite results from descending fluids surrounding a hot-spring setting as opposed to ascending fluids in a fissure.

Sincerely,

Craig J.R. Hart  
Project Geologist

**APPENDIX 7**

**SUMMARY OF FIELD EXPENDITURES**

**2001 DIAMOND DRILLING**

**PROGRAM**

**KAOLIN CLAIMS**

## Summary of Expenditures/Work Performed (TOTAL)

### Diamond Drilling and related costs

Drill rental (rated at 10% of value of equipment/month)	
\$45,000.00 x 2.5 months= \$11,250.00	
at 75% (heavy equipment)= \$8,437.50	\$8,437.50
Drilling fluids	\$ 750.00
Core boxes	\$ 412.96
Diamond products	\$1,380.00
Core barrel assembly and slides	\$1,303.26
Fuel	\$1,104.25
Truck rental (2 1/2 months at \$1,450.00/month)	
2.5 x \$1,450.00 = \$3,625.00 x 25% = \$906.25	\$ 906.25
Truck mileage: a) Daily work travel = 450Km.	
b) Whitehorse – return = <u>2317Km.</u>	
TOTAL 2767 Km. x .42 =	\$1,162.00
Assays	\$3,801.44
Logging of core (R. Stroschein)	\$1,200.00
Living expenses: \$35.00 x 177 man days	\$6,195.00
Salaries: (Luke) 73 days x \$150.00 per = \$10,950.00	\$10,950.00
(Shane) 40 days x \$150.00per = \$ 6,000.00	\$ 6,000.00
Report and drafting	<u>\$ 500.00</u>
 <b>GRAND TOTAL FOR SUMMER 2001=</b>	 <b>\$44,373.38</b>
Percentage of total available for assessment purposes on KAOLIN CLAIMS = <b>16.25% OF GRAND TOTAL</b>	 <b><u>\$ 7,210.64</u></b>

YUKON ENERGY, MINES  
& RESOURCES LIBRARY  
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