

2002 DIAMOND DRILLING REPORT



ON THE

CANYON GOLD GREW CREEK PROJECT

Whitehorse Mining District

NTS: 105K/2

Latitude 62° 03', Longitude 132° 50'

094321

CANYON CLAIMS

(June 1st - Sept. 16th, 2002)

**By: A. Carlos (owner of claims)
January 21, 2003**

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File Number 02-031

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 28,000.

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

Costs associated with this report have been
approved in the amount of \$ 28,000.00
for assessment credit under Certificate of
work No. QW27630

A. Sautter

Mining Recorder
Whitehorse Mining District

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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 2002, between June 2nd and August 31st, was spent in an attempt to assess Enzyme Leach Anomaly E, determined during a soil survey in 2000.

PROGRAM 2002

A total of 1367 ft. in 6 holes was drilled using a Hydrocore machine producing 1.39 inch diameter core. Recovery was excellent, with the deepest hole drilled to 380 ft. (-50°). No economic mineralization was determined. Anomalous results however, in CGGC-5, has given us new insights to guide further work.

RECOMMENDATIONS

A previous conventionally developed target, flanking the currently defined Anomaly E to the south, can be supported by a simple re-interpretation of the Enzyme Leach data. The target requires at least one drill hole.

DISCUSSION OF DIAMOND DRILLING

The following discussion summarizes the 2002 drill program on claim Canyon 15. Detail drill log descriptions, cross sections, assays and geochem reviews per hole are reported in Appendix 2, 3 and 4.

Hole CGGC-5 was drilled to test the section north of D.D.H. 95-172, where anomalous Au was noted in the upper level.

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.

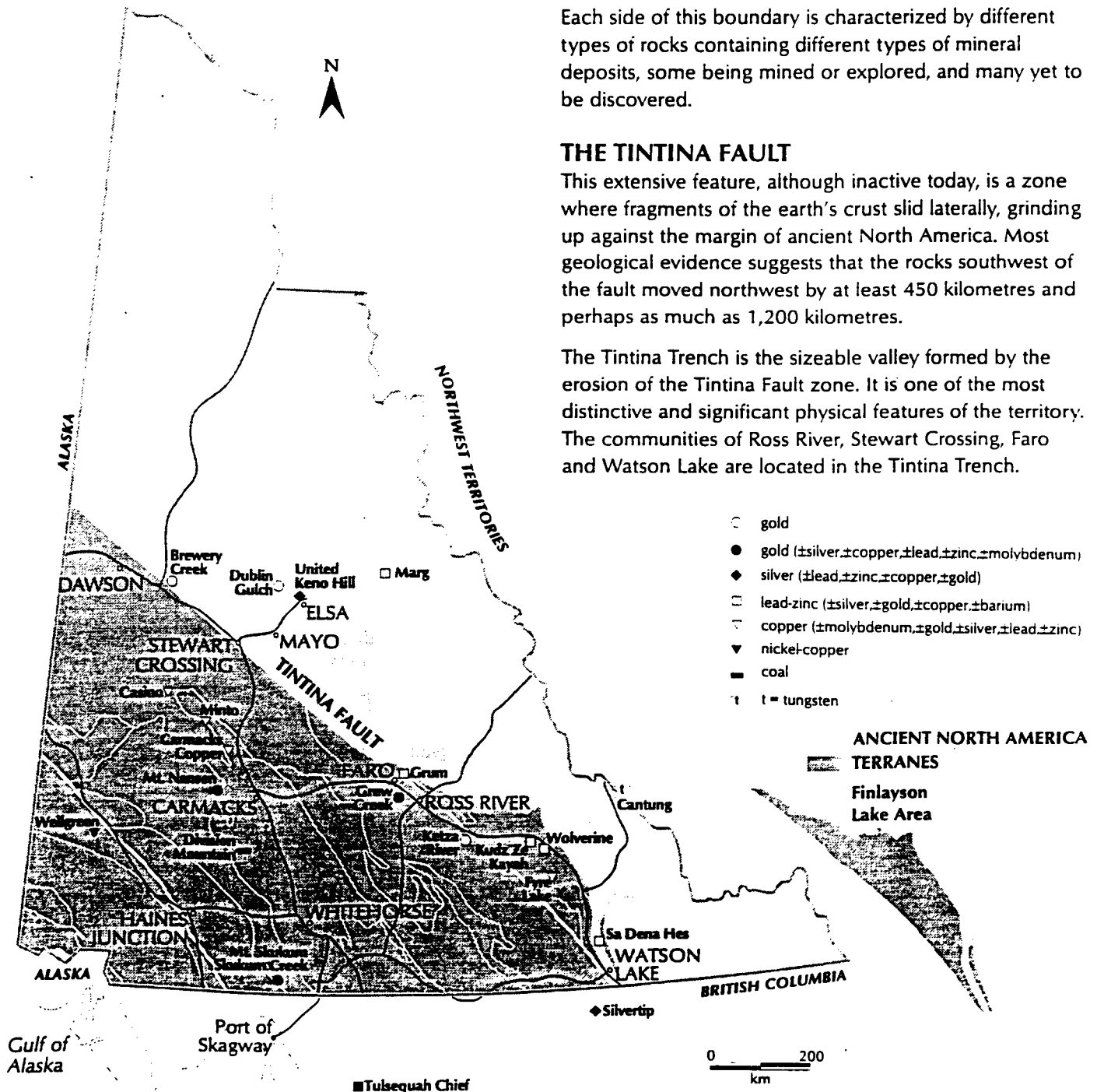
The Yukon's geology can be roughly split into two rock groups: those north of the Tintina Fault and those south of it. This dividing line cuts northwest to southeast across the territory from Alaska to northern British Columbia.

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.



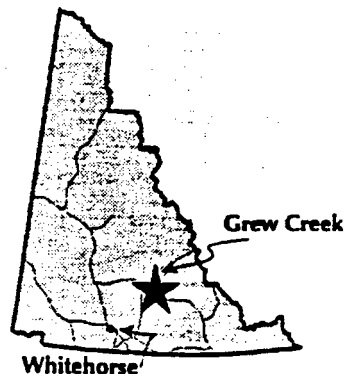
GREW CREEK PROJECT

Owner: A. Carlos
Whitehorse, Yukon

Phone (867) 668-6309

PROJECT STATUS

Available for option



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.

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.

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 168 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.

A determination was made last year that any structure along the extent of Anomaly E would most likely have a southerly dip, a further reason for the drilling of hole 5.

Having intersected a visibly interesting zone in hole 5, hole 6 was planned to test for a possible easterly strike extent. Also, the section south of D.D.H. 4 would be tested.

Possibilities noted in hole 6 prompted hole 7, to test along strike. Results were surprising and unexpected. Of note was the recognition of pyrobitumen over a significant core intercept.

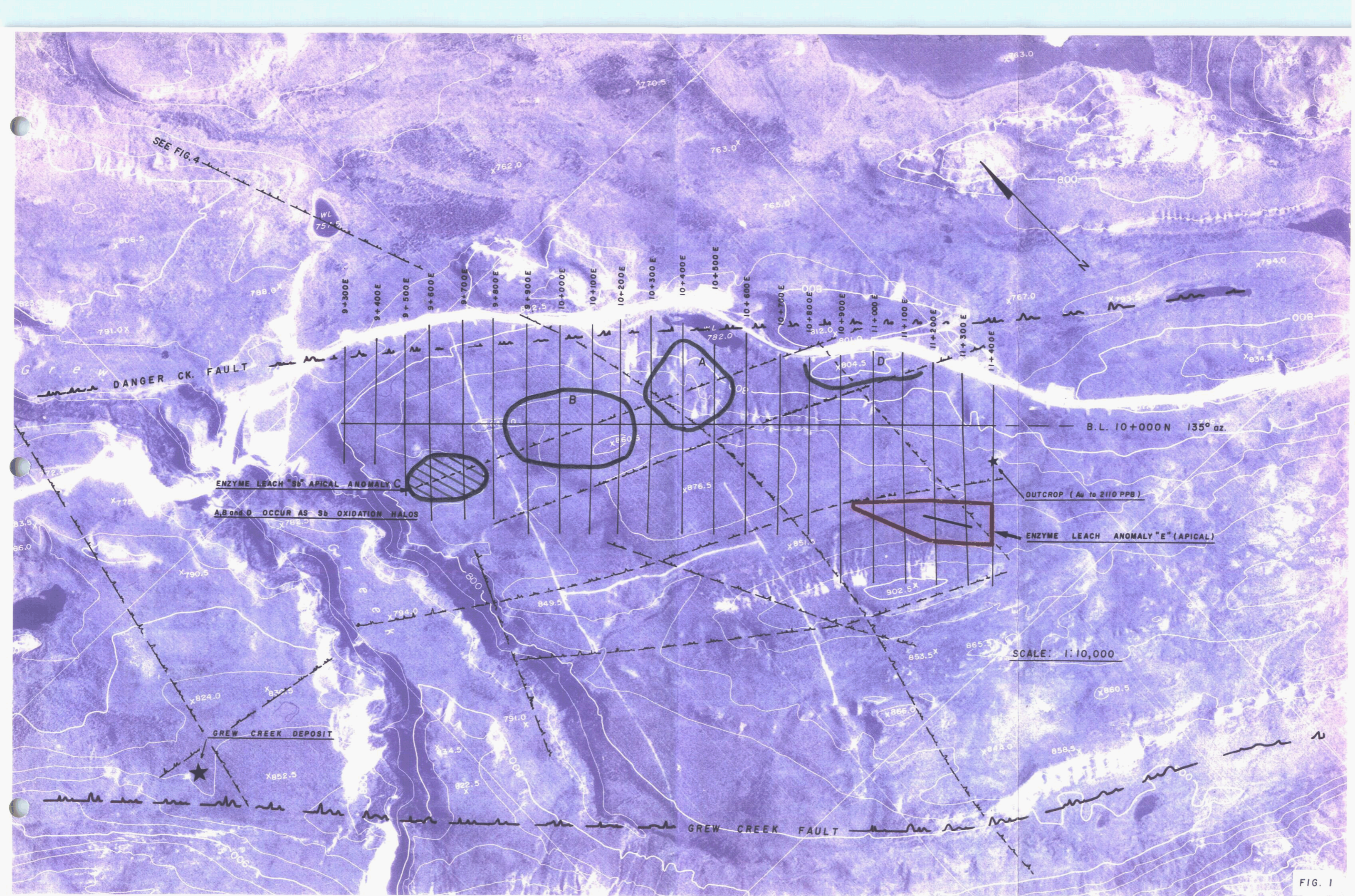
We now refocused our attention on the more pronounced aspect of Anomaly E. Hole 8 was planned to go to depth to test last years core assays in hole 1, which suggested deeper possibilities. We were pleased to immediately core 7 meters of tectonically brecciated rhyolite, quartz veined, silicified, and displaying significant Fluorite in the form of veining and crystals in quartz lined vugs.

With no assays in hand – we drilled hole 9 to pick up possible mineralization along strike of the determined Enzyme Leach apical high. Also, the hole was set to 60° Az. to better intersect a suggested extensional fault as determined from Aerodat interpretation.

Disappointed in only a short fault controlled section of possible Au mineralization in hole 9, hole 10 was drilled to further evaluate a yet undetermined reason for the second geochem peak of Anomaly E. The hole was successful in that regard.

CONCLUSIONS

As is always the case, new information leads to further ideas. The extensive area of hydrothermal brecciation, alteration and geochemically anomalous core intercepts, so far determined, suggests we should further persevere in our attempts. Much study this past fall has led to a rather interesting possibility – very nearby.



SEE FIG. 4

DANGER CK. FAULT

ENZYME LEACH "Sb" APICAL ANOMALY C

A, B and D OCCUR AS Sb OXIDATION HALOS

GREW CREEK DEPOSIT

GREW CREEK FAULT

B.L. 10+000N 135° az.

OUTCROP (Au to 2110 PPB)

ENZYME LEACH ANOMALY "E" (APICAL)

SCALE: 1:10,000

FIG. 1

UAG 1011 151.94

UAG 1011 151.94

UAG 1011 151.94

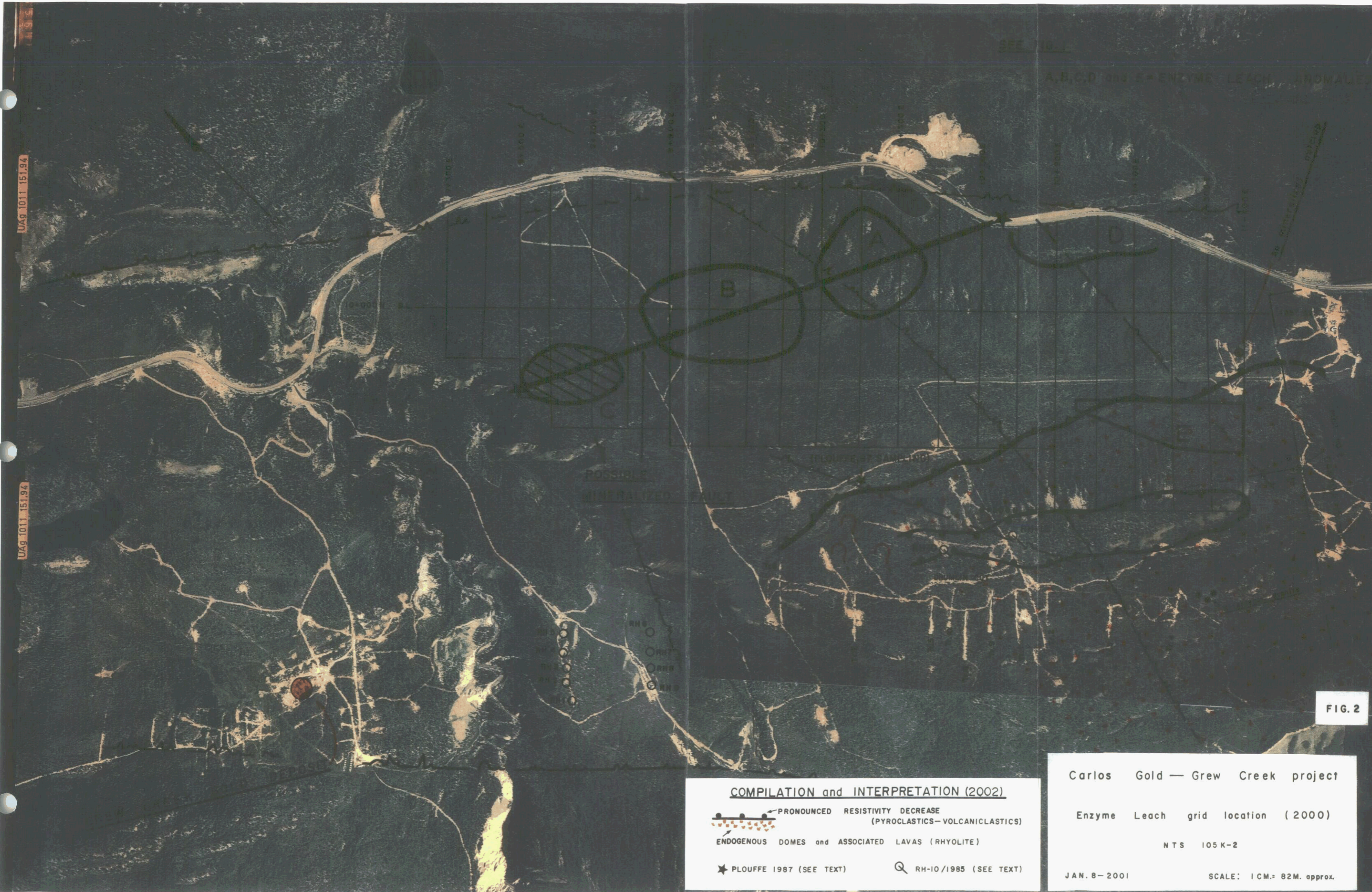






FIG. 2

COMPILATION and INTERPRETATION (2002)

- 
 PRONOUNCED RESISTIVITY DECREASE
 (PYROCLASTICS-VOLCANICLASTICS)
- 
 ENDOGENOUS DOMES and ASSOCIATED LAVAS (RHYOLITE)
- 
 PLOUFFE 1987 (SEE TEXT)
- 
 RH-10/1985 (SEE TEXT)

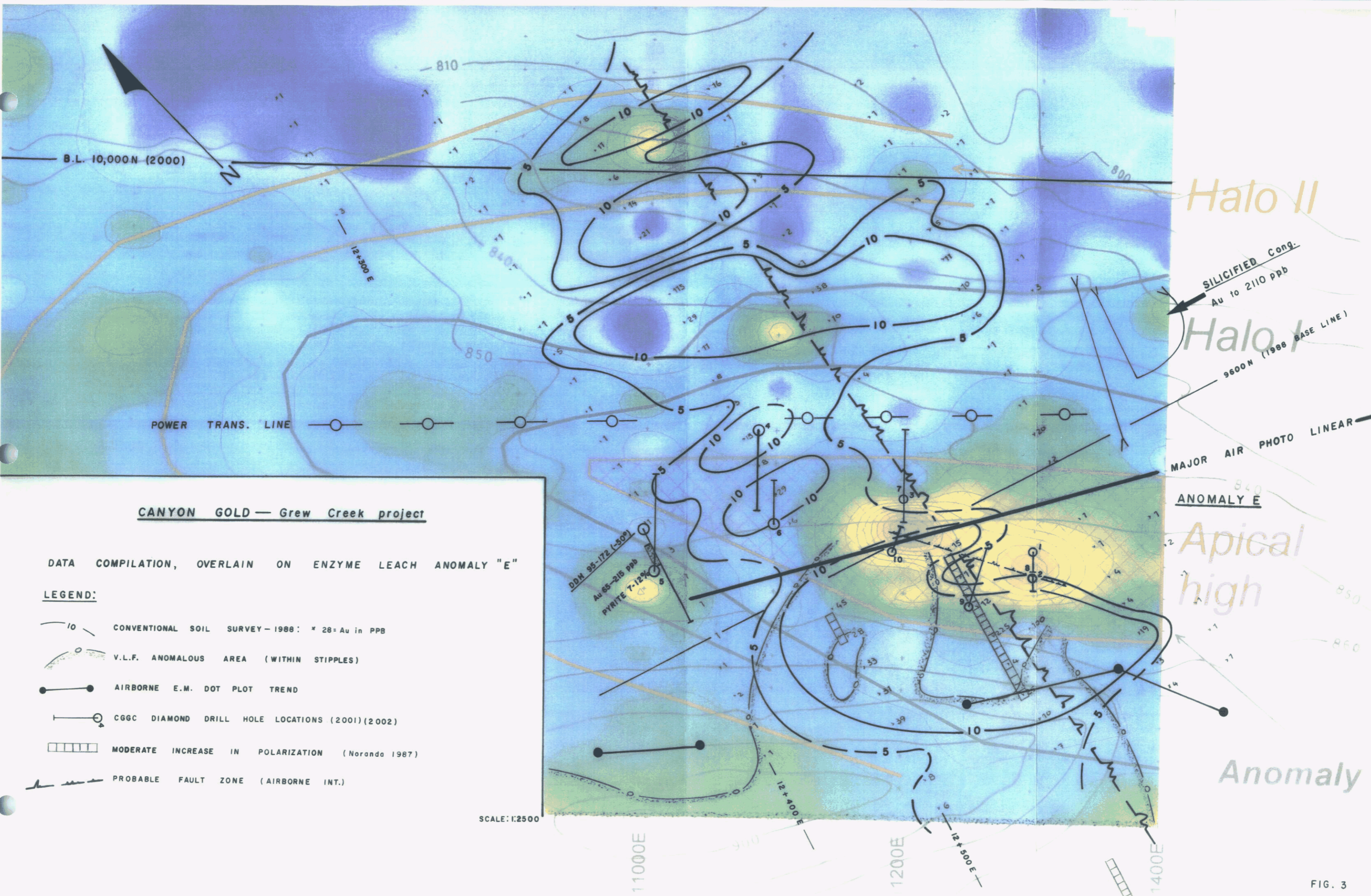
Carlos Gold — Grew Creek project

Enzyme Leach grid location (2000)

NTS 105 K-2

JAN. 8-2001

SCALE: 1 CM. = 82M. approx.



B.L. 10,000N (2000)

Halo II

Halo I

SILICIFIED Cong.
Au to 2110 Ppb

9600N (1988 BASE LINE)







POWER TRANS. LINE

MAJOR AIR PHOTO LINEAR ANOMALY E

CANYON GOLD — Grew Creek project

DATA COMPILATION, OVERLAIN ON ENZYME LEACH ANOMALY "E"

LEGEND:

-  CONVENTIONAL SOIL SURVEY — 1988: * 28= Au in PPB
-  V.L.F. ANOMALOUS AREA (WITHIN STIPPLES)
-  AIRBORNE E.M. DOT PLOT TREND
-  CGGC DIAMOND DRILL HOLE LOCATIONS (2001)(2002)
-  MODERATE INCREASE IN POLARIZATION (Noranda 1987)
-  PROBABLE FAULT ZONE (AIRBORNE INT.)

SCALE: 1:2500

ANOMALY E

Apical high

Anomaly

FIG. 3

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,

A handwritten signature in black ink, appearing to read 'Allen M. Carlos', written over a horizontal line.

Allen M. Carlos, PROSPECTOR

January 21, 2003

APPENDIX 2

DIAMOND DRILL HOLE CROSS SECTIONS

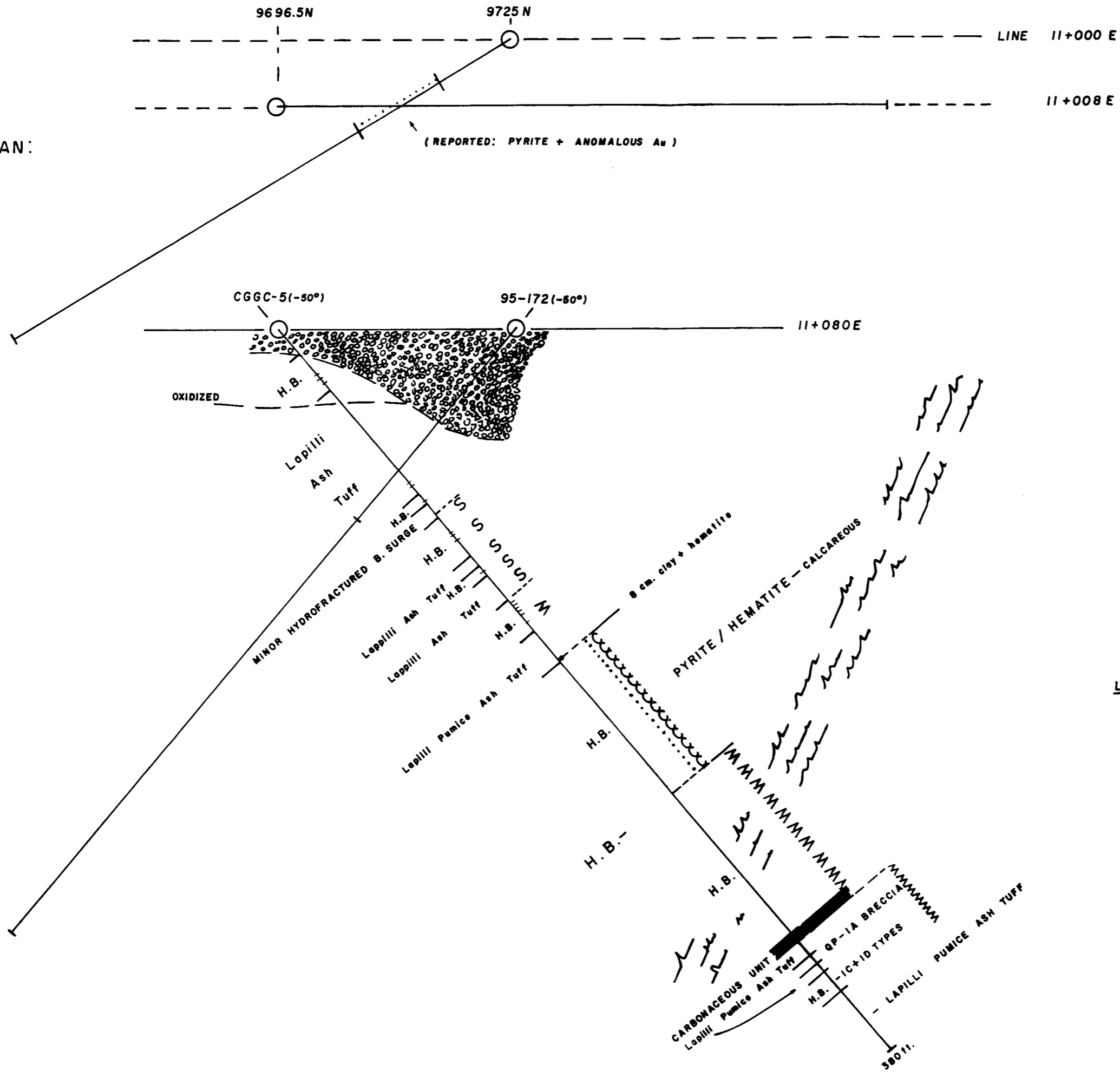
2002 DRILL PROGRAM

CGGC-5 ANOMALOUS ELEMENTS / VERY ANOMALOUS=

Au ppb

053612	< 5										17-21.5 ft.	
053613	< 5										21.5-26.75	
053614	< 5										26.75-31 ft.	
053615	< 5										80-85 ft.	
053616	< 5										85-91 ft.	
053617	37										91-95.5 ft.	
053618	< 5										95.5-100.5	
053619	< 5										100.5-105 ft.	
053620	< 5										106.5-111.5 ft.	
053621	< 5										111.5-117.5 ft.	
053622	< 5										123.5-128 ft.	
053623	6										142-147.5 ft.	
053624	< 5										147.5-152.5 ft.	
053625	9							+ Th	+ U		+ Pb	152.5-158 ft.
053626	< 5										+ Cu	173.5-179 ft.
053627	< 5											179-184 ft.
053628	13	+ As	+ S			+ Sb	+ Cu					184-189 ft.
053629	37	+ As	+ S	+ Rb	+ Hg	+ Sb	+ Cu		+ K	+ W		189-194 ft.
053630	17	+ As	+ S	+ Rb	+ Hg	+ Sb	+ Cu					194-199 ft.
053631	92	+ As ⁺	+ S	+ Rb	+ Hg	+ Sb	+ Cu					199-204 ft.
053632	65	+ As ⁺	+ S	+ Rb	+ Hg	+ Sb	+ Cu					204-209 ft.
053633	9	+ As	+ S									209-214 ft.
053634	8		+ S		+ Hg							214-219 ft.
053635	6		+ S				+ Cu		+ Mo			219-224 ft.
053636	34	+ As	+ S									224-229 ft.
053637	12		+ S									229-234 ft.
053638	< 5						+ Cu					234-239 ft.
053639	< 5											239-245 ft.
056235	7	+ As			+ Hg		+ Cu					272'9"-275'6"
056236	6	+ As	+ S		+ Hg	+ Sb	+ Cu				+ Se	279-284 ft.
056237	10	+ As						+ Th	+ U	+ Se		284-289 ft.
056238	11	+ As	+ S		+ Hg	+ Sb	+ Cu					289-294 ft.
056239	5				+ Hg		+ Cu					294-299 ft.
056240	< 5				+ Hg		+ Cu					299-304 ft.
056241	7		+ S		+ Hg		+ Cu					304-309 ft.
056242	< 5						+ Cu					309-317 ft.

PLAN:



D.D.H. No. 5 - 2002

COLLAR 11+008E AZIMUTH 045°

LOOKING NW SCALE: 1:500

- LEGEND:**
- C — CARBONATE ALTERATION
 - S — SERICITE ALTERATION
 - ... — DISSEMINATED PYRITE
 - W — CLAY ALTERATION
 - ~ — AMETHYST VEINLETS OR REPLACEMENTS
 - H.B. — HYDROTHERMAL BRECCIA

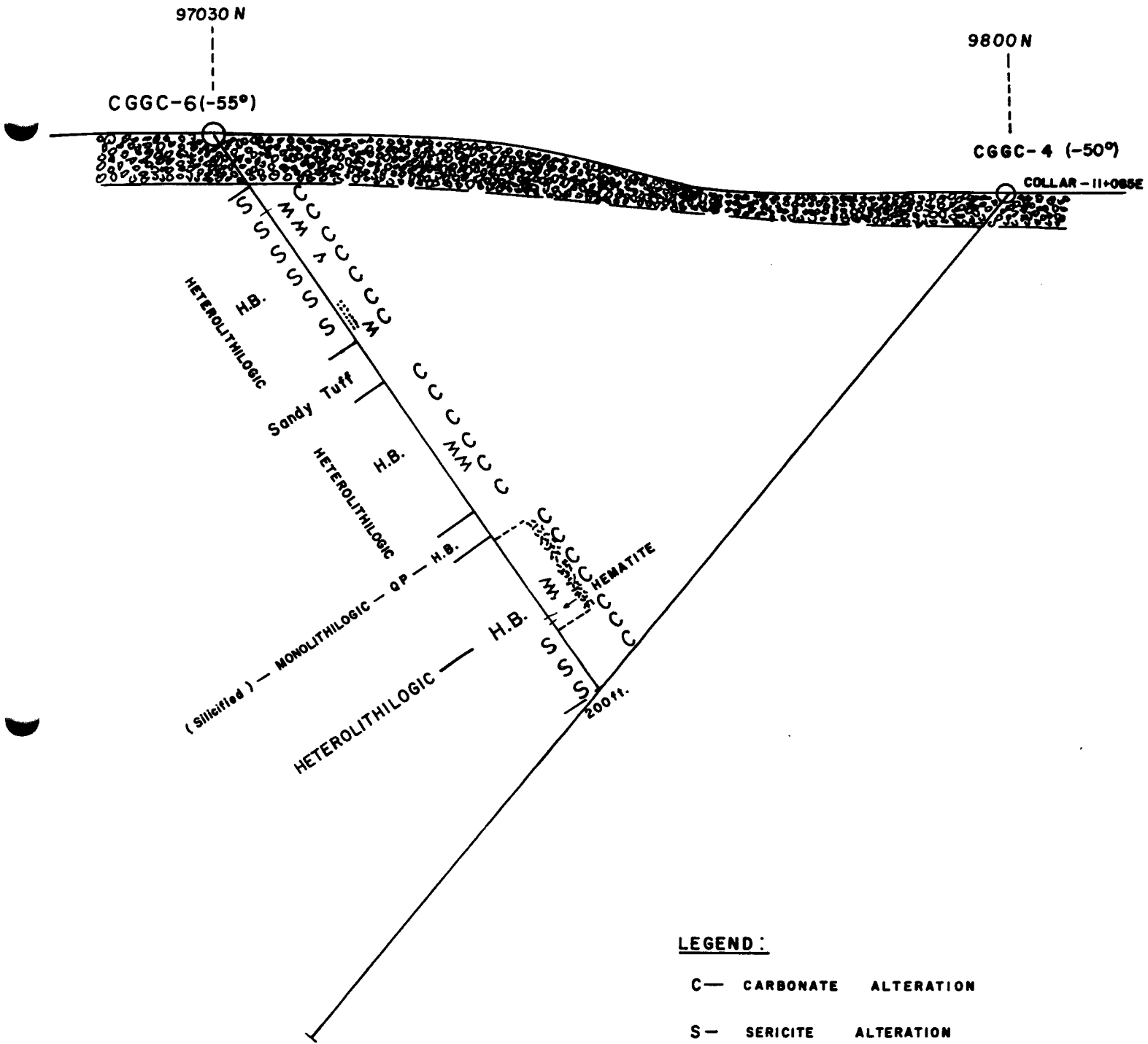
CGGC-6 ANOMALOUS ELEMENTS / VERY ANOMALOUS=*

Auppb													
053640	< 5	+ La	+ Mo	+ Th	+ U	+ Pb				- Ca	- Mg	- Na	22 — 27ft.
053641	9	+ La	+ Mo	+ Th	+ U	+ Pb				- Ca	- Mg	- Na	27 — 33ft.
053642	< 5	_____											33 — 38ft.
053643	< 5	_____											38 — 43ft.
053644	< 5	_____											43 — 48ft.
053645	< 5	_____											48 — 53ft.
053646	< 5	_____											53 — 58ft.
053647	< 5	_____											58 — 63ft.
053648	< 5	+ La	+ Mo	+ Th		+ Pb				- Ca	- Mg	- Na	63 — 69ft.
053649	< 5		+ Mo	+ Th	+ U	+ Pb				- Ca	- Mg		69 — 75ft.
053650	< 5		+ Mo							- Ca	- Mg	- Na	75 — 80ft.
053651	< 5	_____											90 — 95ft.
053652	< 5	_____											95 — 100ft.
053653	< 5	_____											100 — 105ft.
053654	< 5	_____											105 — 110ft.
053655	< 5	_____											110 — 115ft.
053656	< 5	_____											115 — 120ft.
053657	< 5	_____											120 — 125ft.
053658	< 5	_____											125 — 130ft.
053659	< 5	_____											130 — 136.2ft.
053660	11	+ La	+ Mo*	+ Th*	+ U*	+ Pb*	+ W*	+ Zr*	+ Nb*	- Ca	- Mg		136.5 — 141ft.
053661	< 5	+ La	+ Mo*	+ Th*	+ U*	+ Pb*	+ W	+ Zr*	+ Nb*	- Ca	- Mg		141 — 145ft.
053662	< 5				+ U					- Ca	- Mg		145 — 148ft.
053663	< 5	_____											148 — 153ft.
053664	< 5						+ W			+ Cu			153 — 158ft.
053665	< 5						+ W						158 — 163ft.
053666	< 5	_____											163 — 168ft.
053667	< 5	+ La	+ Mo			+ Pb					- Mg		168 — 174ft.
053668	7								+ Te*		- Mg		174 — 177ft.
053669	< 5	+ La				+ Pb					- Mg		177 — 182ft.

NOTE: High W in brecciated, silicified zone. Related Zr-Nb suggest faulting.

See Northerly trend of W in Enzyme Leach plots.

Pb values in this hole and hole 10 are anomalous.



LEGEND:

- C — CARBONATE ALTERATION
- S — SERICITE ALTERATION
- ⋯ — DISSEMINATED PYRITE
- ≍ — CLAY ALTERATION
- ~ — AMETHYST VEINLETS - REPLACEMENTS
- ⊞ — QTZ. CARB. STOCKWORK
- H.B. — HYDROTHERMAL BRECCIA

D.D.H. No. 6 - 2002

COLLAR 11+100E AZIMUTH 045°

LOOKING NW SCALE: 1:500

CGGC-10 ANOMALOUS ELEMENTS

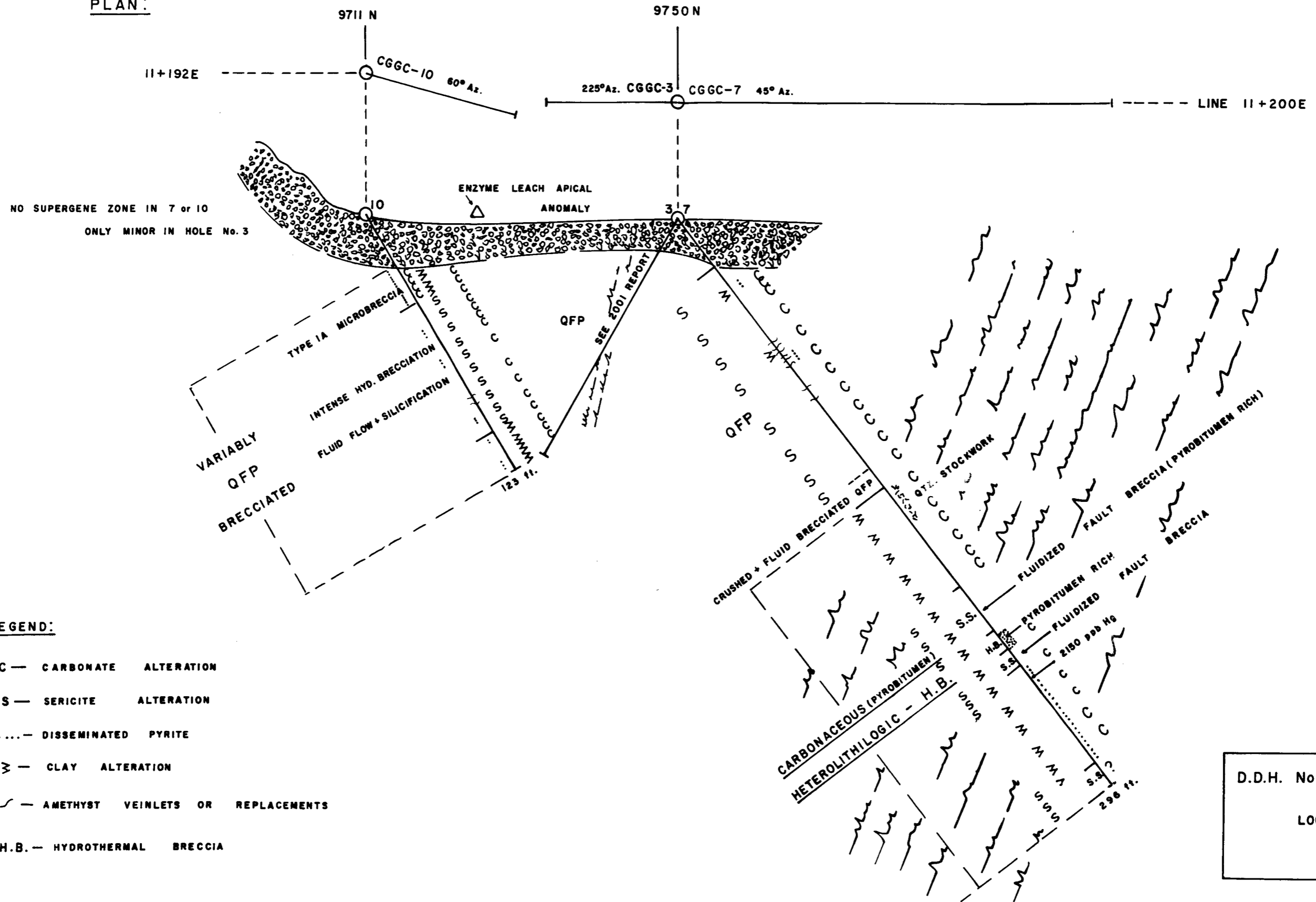
	Au ppb											
053605	52	+ La	+ Rb	+ Th	+ U	+ Pb			- Ca	- Na	- Mg	26-31 ft.
053606	15	+ La	+ Rb	+ Th	+ U	+ Pb	+ Mo		- Ca	- Na	- Mg	31-36 ft.
053607	50	+ La	+ Rb	+ Th	+ U	+ Pb	+ As		- Ca	- Na	- Mg	36-42 ft.
053608	5	+ La	+ Rb	+ Th	+ U	+ Pb	+ Sb		- Ca	- Na	- Mg	42-47 ft.
053609	5	+ La	+ Rb	+ Th	+ U	+ Pb		+ Cr	- Ca	- Na	- Mg	47-52 ft.
053610	5	+ La	+ Rb	+ Th	+ U	+ Pb			- Ca	- Na	- Mg	52-57 ft.
053611	5	+ La	+ Rb	+ Th	+ U				- Ca	- Na	- Mg	57-62 ft.
053684	5	_____										62-67 ft.
053685	5	_____										67-72 ft.
053686	5	_____										72-77 ft.
053687	5	_____										77-82 ft.
053688	5	_____										82-87 ft.
053689	5	_____										87-92 ft.
053690	5	_____										92-97 ft.
053691	5			+ Th	+ U	+ Pb		+ Zr	- Ca	- Na	- Mg	97-102 ft.
053692	5											102-107 ft.

ANOMALOUS ELEMENTS SIMILAR TO HOLE 8 / Pb only in this hole / Zr in no. 8

CGGC-7 ANOMALOUS ELEMENTS / VERY ANOMALOUS=*

	Auppb									
053670	11	+ Pb		+ Th		+ Bi*	- Ca	- Mg	- Na	37.5—39.5 ft.
053671	9	_____								66—74 ft.
053672	< 5	_____								135.5—141 ft.
056243	< 5		+ Sb		+ U		- Ca			141—146 ft.
056244	< 5	+ Cu								146—151 ft.
053673	< 5	+ Cu		+ Hg						158—163 ft.
053674	< 5	+ Cu		+ Hg			- Ca			182.5—189 ft.
053675	< 5	+ Cu		+ Hg						215—220 ft.
053676	< 5	+ Cu		+ Hg						220—224 ft.
053677	< 5	+ Cu*		+ Hg		+ Ni		- Ca		233—237 ft.
053678	< 5	+ Cu*		+ Hg(2150 ppb)	+ S	+ Ni		+ V		237—241 ft.
053679	< 5	+ Cu		+ Hg(820 ppb)	+ S					241—247 ft.
053680	< 5	_____								247—252 ft.
053681	< 5	_____								252—257 ft.

PLAN:



LEGEND:

- C — CARBONATE ALTERATION
- S — SERICITE ALTERATION
- — DISSEMINATED PYRITE
- ≡ — CLAY ALTERATION
- — — — — AMETHYST VEINLETS OR REPLACEMENTS
- H.B. — HYDROTHERMAL BRECCIA

D.D.H. No. 7 and 10 (2002)

LOOKING NW

SCALE: 1:500

CGGC-8 ANOMALOUS ELEMENTS / VERY ANOMALOUS = *

Au ppb

056246	17	+ La	+ Rb	+ Th	+ U	+ Zr				- Ca	- Mg	- Na	3-8 ft.
056247	56	+ La	+ Rb	+ Th	+ U	+ Zr	+ Cr	+ Ga	+ K		- Mg	- Na	8-13 ft.
056248	30	+ La	+ Rb	+ Th	+ U	+ Zr				- Ca	- Mg	- Na	13-18 ft.
056249	5	+ La	+ Rb	+ Th	+ U	+ Zr		+ Ga	+ K	- Ca	- Mg	- Na	18-23 ft.
053601	< 5	+ La	+ Rb	+ Th	+ U	+ Zr	+ Hg			- Ca	- Mg	- Na	23-28 ft.
053602	< 5	+ La	+ Rb	+ Th	+ U	+ Zr				- Ca	- Mg	- Na	28-33 ft.
053603	< 5	+ La	+ Rb	+ Th	+ U	+ Zr				- Ca	- Mg	- Na	33-38 ft.
053682	109	+ La	+ As	+ Th	+ Mo	+ Sb	+ Hg	+ S		- Ca	- Mg	- Na	77-79 ft.

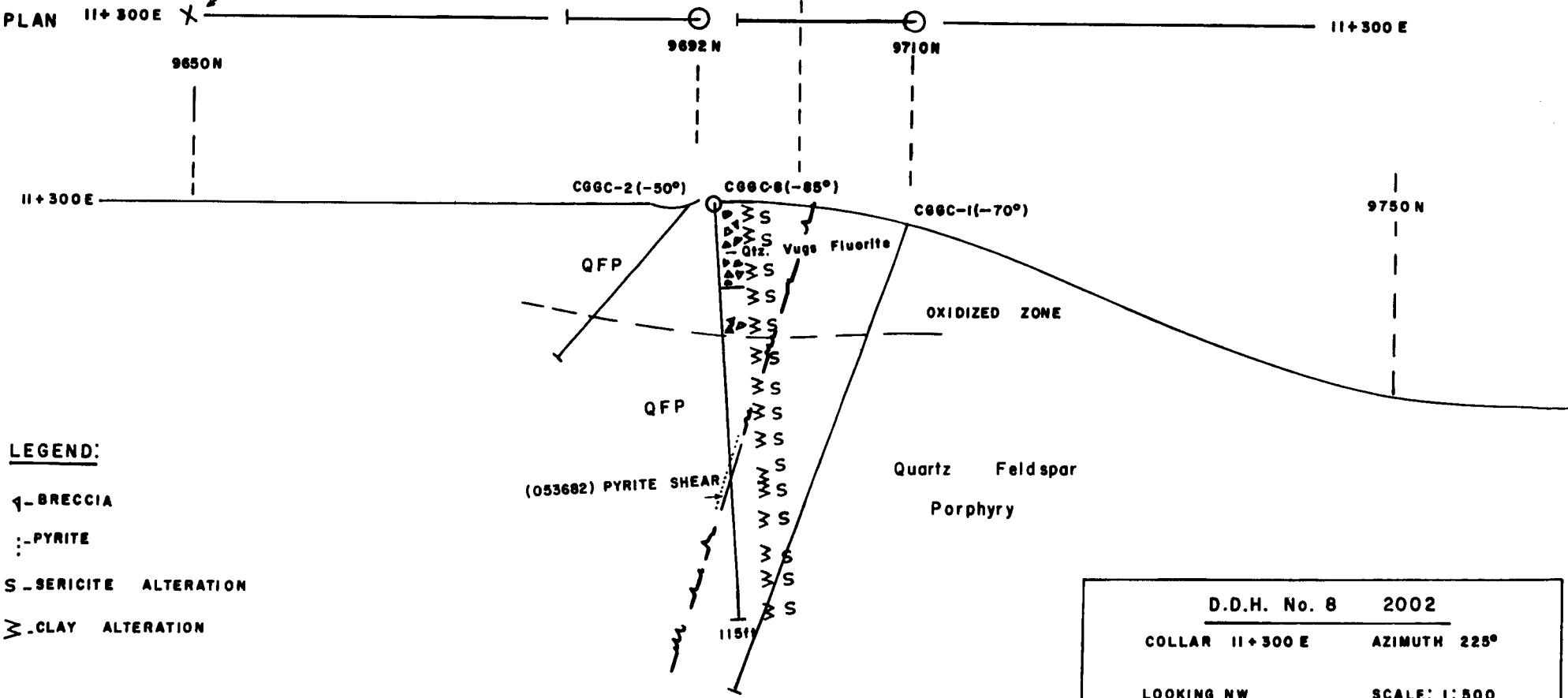
HIGH FIELD STRENGTH ELEMENT Zr — supports evidence for fault.

X — 88 LINE
 225 PPB Au Noranda 86

FOR DDH No. 1 and 2 — see 2001 REPORT

PLAN 11+300 E X
 100 PPB Au NORANDA 87

9700N-ENZYME LEACH APICAL ANOMALY



- LEGEND:**
- ↙ - BRECCIA
 - ⋯ - PYRITE
 - S - SERICITE ALTERATION
 - W - CLAY ALTERATION

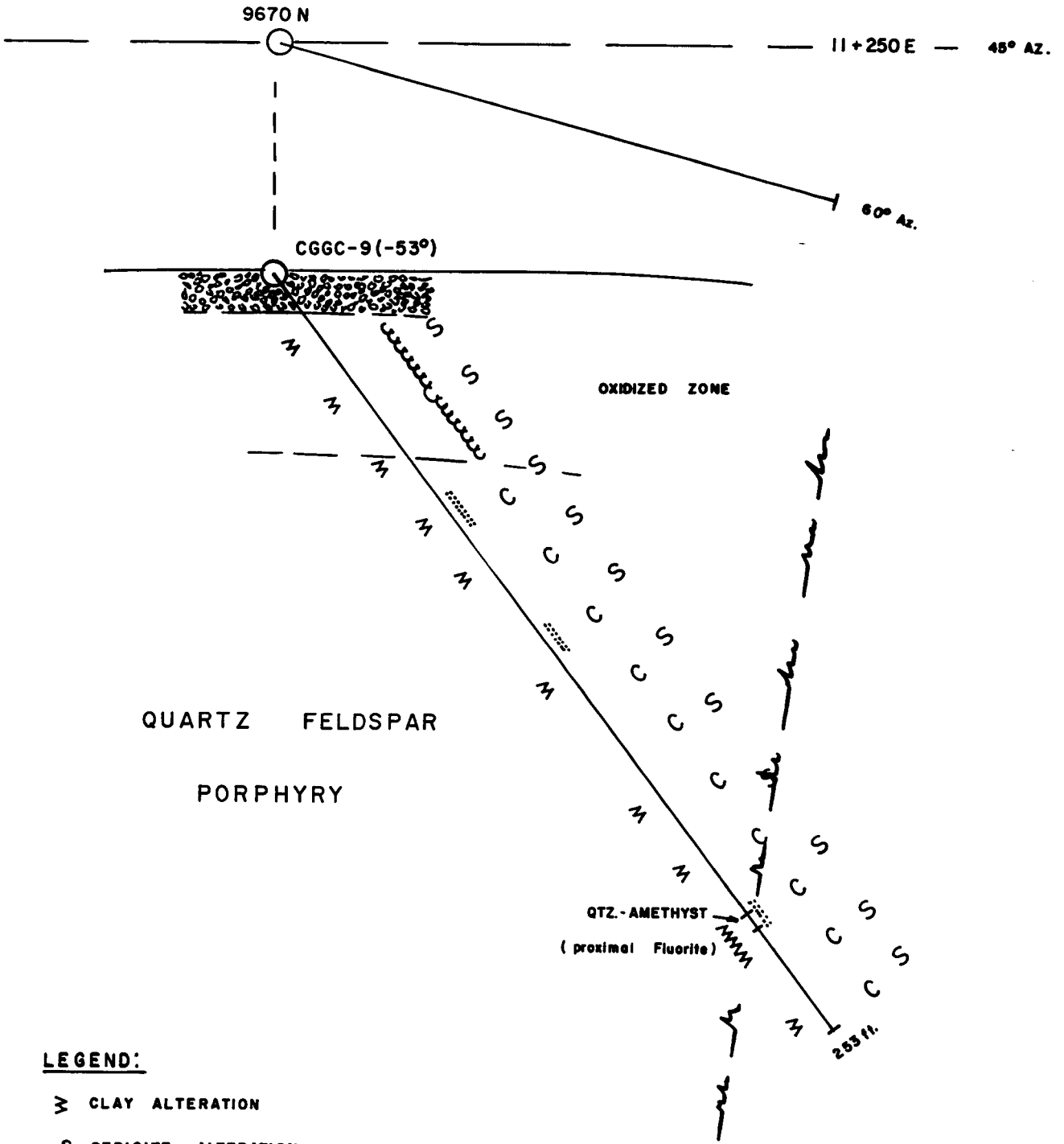
D.D.H. No. 8 2002	
COLLAR 11+300 E	AZIMUTH 225°
LOOKING NW	SCALE: 1:500

CGGC-9 ANOMALOUS ELEMENTS / VERY anomalous = *

	Au-ppb														
053683	<5	+Lo	+Th	+Zr	+U							-Ca	-Mg	-Na	32.5-37.5 ft.
053604	14	+B*	+Th	+Zr	+U	+Hf	+Nb	+Ga*	+Sn*	+Pb		-Mg		-Na	218.5-221.5 ft.
						+K	+Rb								

ONLY HIGH BORON IN ENTIRE PACKAGE at 20ppm—all others <10.

053604 / HIGH in Zr, Hf, Nb — suggests a fault.



LEGEND:

- M CLAY ALTERATION
- S-SERICITE ALTERATION
- ⋯ PYRITE
- C- CARBONATE ALTERATION

D.D.H. No. 9 - 2002	
COLLAR 11+250 E	AZIMUTH 060°
LOOKING NW	SCALE: 1:500

APPENDIX 3

DIAMOND DRILL HOLE

DESCRIPTIVE LOGS

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 pseudoporphry 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 | stringer |
- Qv QUARTZ VEINS Number of veins or stringers.
- T Type or Total Alteration Classification
- | | |
|----|-----------------|
| 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.

GRID Anomaly E HOLE NO. CGGC-5 COORDINATES L11+800E 9+696.5N

BEARING 045° Az ANGLE -50° DEPTH 380'

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Au	Ag
0'	10'	0074N		PPb	PPm
14'	31'	<u>HYDROTHERMAL BRECCIA H.B.</u>			
		14'-16': broken - light brown rusty clay rich material - calcareous.			
		16'-18.5': 50% recovery. Intensely limonite fractured block of prominently flow-banded QP - very siliceous - occasional pyrite blebs. latter portion of this section consists 50% of fragments within a dried, white granular clay			
		18.5-19": fine black matrix H.B. - clasts of intensely flow-banded QP - siliceous			
		19'-20': light brown rusty - dried clay			
		(19'-21.5')	053612	< 5	
		20'-31': fine black matrix H.B. clasts to 7cm. of essentially highly flow-banded QP. larger clasts fractural with limonite. flow foliation consist of banded milky white and gray Qtz. Very siliceous			
		(21.5'-26.75')	053613	< 5	
		25'-26' - thin veins + spotty replacement of amethyst in QP. clasts. Several larger clasts consist of milky Qtz. veinlets. Only a few original Qtz. eyes remaining - no foliation.			
		(26.75'-31')	053614	< 5	
		27' - minor amethyst replacements			
		27.5'-31' - larger clasts of QP. foliation slight - very siliceous. superficial oxidation fades out at 31'			
31'	365'	<u>RHYOLITIC PYROCLASTIC - lapilli ash tuff</u>			

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Au	Ag
31'	86.5	A dark gray matrix supports tuffaceous fragments of rather fine grained Qtz. Leds. hydro flows, carbonaceous rich material and occasional gray Quartz. Lepidolite fragments consist of altered QP - some of which have (perhaps K-spar) and other accessories. Core is siliceous with occasional hydro flows.		1Ph	1Pm
		80'-86.5': Matrix abruptly darkens at 80'. Coincident with minor veinlets of amethyst. Q. Ind. similar veinlet at 91'. Occasional large lepidolite of carbonaceous material. (80'-85')	053615	<5	
		81'-84.5' - Strong sericite act. of QP. Clasts.			
		86'-86.5' - Siliceous milky white. intensely flow-banded QP Lepidolite			
		86.5' - a 3" section of greenish white clay (smectite).			
86.5'	91'	<u>HYDROTHERMAL BRECCIA - H.B.</u>			
		A large block of flow-banded pink mud QP - cut by numerous thin Qtz. and Qtz. Carbonate H.B. veinlets (85'-91')	053616	<5	
		89' - an irregular contact with a carbonaceous rich section of H.B. Interestingly to note that the matrix of the above noted H.B. veinlets is of similar material.			
		Amethyst veinlets at 87 1/2 and 89' - The entire section is somewhat calcareous.			
91'	99'	<u>CARBONACEOUS (CROSS BANNED UNIT) minor H.B.</u>			
		Irregular thin Qtz. Carbonate veinlets -			

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				A _u	A _g
		<p>Belongs to section of minor H.B. features - most prominent near 99' - where a 9 cm. band of H.B. cuts core at an acute angle. This same material is seen in Ash to leucite zone within the hydrothermal breccias and at times as foreign fragments within OP leucite. This unit may be a base layer - and therefore of juvenile and accessory origin.</p> <p>94' - a 5 cm. irregular patch of fine pyrite (5%) with scattered small white qtz.</p>		0.06	0.00
			(91'-95 1/2')	US3617	37
99'	118 1/2'	<p><u>HYDROTHERMAL BRECCIA - H.B. (HETEROLITHOLOGIC)</u></p> <p>A well developed HB with fragment pieces 4-6 cm. and larger, supported by a siliceous fine grained dark matrix. Fragments are made up disproportionately of strongly flow banded OP. Also present: gray qtz - leucite ash tuff - occasional calcareous chert and small fragments of the carbonaceous unit. Fe oxide speckles + hematite - some along thin fractures. Mainly calcareous - but consistent.</p>			
			(95 1/2' - 100 1/2')	US3618	< 5
		<p>99' - 113' - many flow banded OP fragments have a light peach-pink hue - others a greenish cast.</p>			
			(100 1/2' - 105')	US3619	< 5
		<p>102 1/2' - a 5 mm green fluorite vein - 70°C A</p> <p>104 1/2' - 106' - an intact leucite ash tuff block - not brecciated by hydrothermal brecciation.</p>			
		<p>113' - 118 1/2' - foldings of greenish blue Amethyst - thin veins: 109' - 50°C A / 109' - 60°C A</p>			
			112' - 60°C A (106 1/2' - 111 1/2')	US3620	> 5

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY		
				A _u	A _g	
			(111 1/2 - 117 1/2)	053621	> 5	
118 1/2'	123 1/2'	RHYOLITIC PYROCLASTIC - lapilli ash Tuff				
		lapilli consist essentially of lightly flow banded QP, which appears somewhat flattened in a preferred direction giving the rock a foliated appearance. The matrix in general and in particular the lapilli lithics have a greenish hue. Few separate fractures at 60° CA are clay rich. Scattered thru-out are carbonaceous lithics not exceeding 5mm. Color is relatively siliceous.				
123 1/2'	120'	H.B. HYDROTHERMAL BRECCIA (Heterolithic)				
		Section begins with a hydrofractured tuff to a 6" carbonaceous fragment at 124 1/2' - displaying thin Qtz. plus Qtz. carb. veinlets				
		125 1/2' - Significant fine pyrite along fracture. The remaining section to 120' is of flow banded QP - cut by irregular & ductile matrix hydrothermal breccia veinlets.				
		126 1/2' - Clay seam at 60° CA. Co no. of larger QP lapilli appear to be collectively silicified - obliterating the flow-banded texture. Flow banding within QP lapilli varies between a greenish to light peach-pink hue. The section is significantly calcareous - plus neocitric.				
		Amethystine replacement section at 126 1/2'	(123 1/2 - 128)	053622	< 5	

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
128'	142'	<u>RHYOLITIC PYROCLASTIC - lapilli ash Tuff</u>			
		Essentially as 118 1/2' - 123 1/2' - The WP lithics are particularly coarse notable in their Olive-Green coloration. During drilling this section produced a distinct green tinted water return - strong devicile cut. - Noted also coarse cells of RP lapilli of a white - gray color - very distinct but thin & few in number present - also spherulites.			
		133 1/2' - Several well rounded carbonaceous lithics.			
142'	158 1/2'	<u>HYDROTHERMAL BRECCIA (Heterolithic)</u>			
		Irregular anastomosing nodules plus small veins and veinlets of dark matrix H.P. penetrate large blocks of intensely flow banded RP. Other small fragments include gray Qtz., what may be a fine grained tuff and a strongly foliated block at 152 1/2'. RP generally has a peach-pink hue - although some smaller fragments within the breccia are slightly green. Calcareous throughout. Very siliceous generally. Strong clay alteration from 142' - 143' and 150 1/2' - 158' - with a pyrite increase at the latter interval.			
		143' - Amethyst - clay seam 60° CA			
		144' - " " " "			
		144 1/2' - " " " "			
		145' - Amethyst vein - 65° CA			
		146' - Amethyst " - 65° CA - outer edge of			

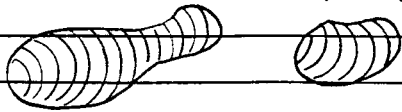
FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				A ₂	A ₉
		White Qtz. with pilitz interior (banded). Flow banding within WP is normal to the above veinlet - appears silicified by milky white Qtz. up to 5 cm. thick.		PPb	PPm
		147' - Amethyst veinlets - 65° CA	142' - 147 1/2'	053673	6
		148' - Thin H. brecciation along a flow banding plane - also a section of a jig-saw pattern - H. breccia.			
		149' - Amethyst - 70° CA			
		149 1/2' - " - 45° CA - also thin-dark matrix H. breccia veinlets			
		150' - Amethyst - definite replacements of previous Qtz. Phenscript in RP.			
		152 1/2' - 153 1/2' - Intermittently	147 1/2' - 152 1/2'	053674	< 5
		Carbonaceous and gray micaceous - silicified vein - itself permeated and surrounded by H. breccia.			
		154 1/2' - Amethyst			
		156 1/2' - Milky-white Qtz. veinlets			
		157' - Short section of intense white Qtz. replacement of WP - flow banding obliterated. Upon splitting - malachite noted along fractures - microscope shows a fine gray mineral			
		157 1/2' - Ben 8 cm. section of intense brecciation (gravelly) - clay rich.	152 1/2' - 158'	053675	9 0.13
		157 1/2' - 158' - Grains of hematite material in H. breccia.			
158 1/2'	173 1/2'	RHYOLITIC PYROCLASTIC - lapilli; Pumice Ash to SS			
		Lapilli pumice and WP fragments set in a dark crystal matrix. WP lapilli are very glassy with no silicification. Only minor randomly scattered ash			

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY
		to small lapilli of the carbonaceous unit are present. Not actually siliceous except for some lapilli - Non-calcareous other than for a few thin rockcrete lenticles		
172 1/2'	317'	<u>H.B. - HYDROTHERMAL BRECCIA (BRECCIA CONTINUUM)</u>		
		<u>BRECCIA 1A:</u> Initial hydrostructure of QP, forming an intense micro-fractured crackle breccia. Many of the fragments are rounded - perhaps due to minor attrition and/or hydrothermal processes. Pore spaces are healed by a clear Qtz. This breccia type is a minor component of this section.		
		<u>BRECCIA 1B:</u> Complete silicification of 1A type - obliterating the individual fragments, but leaving a discrete pattern of a grey micaceous appearing mineral.		
		<u>BRECCIA 1C:</u> Fluidization of 1A and possibly 1B to create a very fine grained matrix supported monolithologic hydrothermal breccia		
		<u>BRECCIA 1D:</u> ACCRETIONARY lapilli HYD. BRECCIA? - Formed from a late stage channelled fluidization vent (Cindy L. Williams of Mount Ex.). Round to oval shapes		

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY
		<p>Not exceeding 3mm. in diameter - set on a tray to clear Qtz. Carbonate matrix.</p>		
		<p><u>BRECCIA #2 ; MUND TO HETEROLITHOLOGIC</u></p>		
		<p>This appears to be the final breccia event - cutting all of the above breccias in the form of minor veins and voids to irregular granitic matrix.</p>		
		<p>The above temporal sequence of hydrothermal brecciation is used here and is simply my initial attempt to understand this section. In many instances the fragments exhibit a thin vesicular - evidence for fluid flow. Pyrite and hematite are present from 173 1/2' - 245'.</p>		
		<p><u>173 1/2' - 245'</u> A section of hydrothermal brecciation and ubiquitous joints - varying locally, but overall at about 1%. Hematite consistently present, calcareous thru-out and moderately siliceous.</p>		
		<p>173' - 120' - 1B and #2 type breccias - a block of strongly foliated OP at 174 1/2'. At 178' - a 6cm. section of brecciated carbonaceous unit in a #2 type breccia. At 178 1/2' type 1B breccia displaying irregular to circular replacements by Qtz. to Qtz. Carbonates - at times rimmed by pyrite. Minor</p>		

⇒ 03

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Au	Ag
		Hematite occurs in breccia matrix.		PPb	PPm
		A+ 180' - QP is internally micro- fractured to type 1A breccia. (173 1/2 - 179')	053626	>5	0.10
		180 1/2' - 185' - Type 1D breccia is in turn cut by #2 type breccia - (heterolithic with black matrix) - minor pyrite + scattered hematite. (179' - 184')	053627	>5	0.08
		185' - 187' - 1B breccia cut by type #2. A very distinctive is pattern of a gray to brownish micaceous mineral - pyrite + hematite (184' - 189')	053628	13	0.15
		187' - 206' : Essentially 1B breccia - minor 1C type. Many irregular and rounded - generally 2-5mm in diam - replacement features - noted previously. These are either totally or partially replaced by pyrite and/or hematite. At times these irregular to (189' - 194')	053629	37	0.21
		Circular replacements are rimmed by either hematite or pyrite. Hematite plus pyrite also occurs along fractures and disseminated thru-out. Amethyst replaces a large no. of these rounded or irregular features. It is difficult to estimate the hematite present - but it is finely divided in the breccia matrix - as well as in the manner just noted.			
		193' - Green fluorite - 2cm. diam. - 650C4			
		193 1/2' - 196' - Concentrically banded hematite qtz. / white qtz. within a few in. of the irregular to rounded replacement features noted earlier. In one			

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				A _w	A _g
		instance, a thin pyrite band was included in the sequence.			
			(194'-199')	US3630	17 0.08
		199 1/2 - Strong fluid flowage textures - dark carbonaceous material thru-out - to 3mm. Hematite very noticeable in matrix			
		201' - Nice breccia flowage textures - carbonaceous material.			
		202' - Strong microw in pyrite			
		202 1/2 - Minor white qtz. inlets.			
		The irregular to rounded nodules no longer present - more hematite sparsely in the matrix - increase in carbonaceous material.	(199'-204')	US3631	92 0.29
		<u>206' - 245' :</u>			
		Previous 1B type hydrothermal breccia disrupted by a mass to heterolithic #2 type. The monolithic breccia is simply a matrix rich fluid disrupting the 1B type breccia. The latter breccia has well disseminated hematite - but is difficult to see because of a darker matrix.			
		209' - Clay rich crushed section - good pyrite + hematite fragments.	(204'-209')	US3632	65 0.25
		210' - 8 cm. disrupted blocks of carbonaceous unit in #2/1B breccias.			
		212' - 10 cm. section of white clay	(209'-214')	US3633	9 0.11
		219' - Monolithic #2 type disrupting a 12" block of carbonaceous unit.	(214'-219')	US3634	8 0.13

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY		
				Au	Ag	
		220'-223 1/2' - Intense pyrite plus hematite - minor white Qtz. veins - Carbonaceous material in breccia	(219'-224')	US3635	6	0.11
		223 1/2'-226' - disrupted black carbonaceous unit - siliceous - white Qtz. veins plus breccia veins	(224'-229')	US3636	34	0.16
		227'-229' - Strong hematite - pyrite in #2 heterolithic hydrothermal breccia				
		228' - clay fracture - 60°C A				
		229'-238' - Monolithic #2 H.B. fragmenting and disintegrating thru type 1B breccia. Hematite plus pyrite in both breccia types - within matrix.				
		Carbonaceous material in #2 type H.B.	(229'-234')	US3637	12	0.08
		238'-245' - #2 type heterolithic H.B. -				
		239'-240' - WP block - moderately micro-fractured - type 1A breccia - minor pyrite hematite.	(234'-239')	US3638	<5	0.06
		241 1/2' - prominent fluid flow texture - minor pyrite or hematite. From 241 1/2' to end of this section at 245' - has a granular surface texture - indistinctly a red clay matrix to the core.	(239'-245')	US3639	<5	0.06
		245'-317':				
		Strongly clay plus peroxide cat. H. Breccia interval - at Times core has a porous outer surface - porous gravel size fragments supported by a clay matrix. This may be reflecting tectonic brecciation of a pre-existing hydrothermal breccia. Very minor hematite or pyrite.				

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Au	Ag
		246'-247' - Strong peritic alteration of H.B. Type no. 2		PPb	PPm
		249' - Green Fluorite - Sem. circular replacement			
		251'-255' - Intensely crushed appearance of the perthite unit - remnants of type no. 2 breccia occurs within this crushed material.			
		255'-256' - A block of non-brecciated lapilli pumice ash tuff. This suggests that this tuff unit must have a high resistance to hydrofracture.			
		256'-263' - Strong peritic plus clay alteration - Dissected appearance.			
		263'-279': Peritic alteration of breccia types 1B and 1C (not crushed). Again present are the irregular to circular replacements of type no. 2 Carb. There is minor pyrite associated with these features.			
		2729"-2756" - white gray to gray quartz - banding visible (2729"-2756")	056235	7	0.11
		279'-284' - black to white Qtz. Veining - crush zones (279'-284')	056236	6	0.14
		284'-289' - tan gray crushed Qtz. fine-clay rich (284'-289')	056237	10	0.08
		289'-294' - white Qtz. Veining, distinct when not crushed - dark gray to tan Qtz. fragments - some appears as almost veining in the crushed zone - a thin clay matrix (289'-294')	056238	11	0.13
		294'-299' - A predominant tan crushed Qtz in a clay matrix (294'-299')	056239	5	0.08

Logged by A. Cervini Hole Number CGGC-5 Sheet Number 12

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Au	Ag
		299'-304' - As 294'-299' - (lp to 50% milky-white quartz fragments			
		(299-304'	056240	<5	0.07
		304'-309' - a predominant tan crushed qtz. in clay matrix			
		(304-309'	056241	7	0.09
		309'-317' - Predominant Tan crushed qtz. - Some milky white qtz. Veining. At 310' occurs a 1/4 cm. wide crushed hematite rich veinlet			
		(309'-317'	056242	<5	0.07
317'	322'	<u>CARBONACEOUS UNIT</u>			
		Micaceous - Non brecciated - no bedding features			
322'	330'	<u>RHYOLITIC PYROCLASTIC - lapilli Pumice Ash tuff</u>			
		Core surface is greenish - clay alt.			
330'	334'	<u>QUARTZ PORPHYRY - QP</u>			
		Intensely fractured as per type IA breccia previously noted - strongly relictified - It has a foliated appearance due to a flattening and preferred alignment of fractured matrix material.			
334'	338 1/2'	<u>RHYOLITIC PYROCLASTIC - lapilli Pumice Ash tuff</u>			
		As 322' - 330'.			
338 1/2'	347'	<u>IC + ID TYPE HYDROTHERMAL BRECCIA</u>			
		Very clay rich.			

GRID ANOMALY E HOLE NO. CGGC-6 COORDINATES 41+100E / 9+730N

BEARING 45° Az. ANGLE -55° DEPTH 200 ft.

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Au	Ag
0'	22'	URN		PPb	PPm
22'	75'	<u>HYDROTHERMAL BRECCIA (HETEROLITHIC)</u> Irregular Crystallizing Nodules and small veins and veinlets of a dark matrix breccia material, with occasional fragments of a carbonaceous unit and Quartzite, penetrate large blocks of internally flow-banded and very siliceous QP. The highly fractured QP is then interpreted as fragments of various sizes, varying in color from a light green to a pink-peach hue. The entire section is calcareous thru-out with intermittent clay rich alteration. 26' - Clay rich fracture at 50° CA. Also a short section of hydrothermal breccia type IC - tentatively identified in Hole #5 - a fine grained matrix supported, monolithologic breccia of fragmented QP (22'-27') 27' - several veinlets of amethyst 27 1/2' - Clay fracture at 55° CA 29' - Carbonaceous fragments in H.B. with 10% pyrite. 31 1/2' - 33' - Intense milky-white replacement of a QP block - flow banding is obliterated - a 2 in. QP inclusion is of a gray hue - On splitting - noted malachite stain + a fine gray sulphide thru-out. (27'-33')	DS3640	<5	0.07
			DS3641	9	0.07

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Hu	Ag
		Note: Distinct clay alteration starts for 6" just prior to 31 1/2' - and for 6" beyond 33'.			
		36' - Atting clay fracture - 60° CA			
		(33'-38')	053642	<5	
		36 1/2' - 39' - None higher up - clay matrix - essentially 0% fragment hydrothermal Bx.			
		(38'-43')	053643	<5	
		40 1/2' - Persistent white with white - 95° CA			
		44' - Very nice jig-saw puzzle texture - fragments are of 0%.			
		46' - 47' - Granular (crushed) H.B. - supported by a clay matrix.			
		48' - Thin pyrite nodules - variable to core axis	(43'-48')	053644	<5
		54' - 60' - Granular material in a clay matrix	(48'-53')	053645	<5
		69' - Several pyrite pieces at 95° CA			
		70' - Small geom. fragments in H.B. of earlier breccia type 1D - identified initially, in hole # 5 - named (Corrosionary leucite hyd. breccia)			
		(53'-58')	053646	<5	
		72' - 73 1/2' - Very distinct -	(58'-63')	053647	<5
		Siliceous - extra dark (black) matrix H.B.	(63'-69')	053648	<5 0.09
		(69'-75')	053649	<5 0.07	
		72 1/2' - (On wide milky-white qtz. horn at 80° CA.			
		Note: From 63 1/2' to 72 1/2' - pyrite %tage increases - generally along fractures.			
		74' - 75' - Crush Zone (Fault) - intense clay alteration			
		75' - Contact			

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Au	Ag
75'	90'	<u>SANDY TUFF</u> A Coherent texture - dark gray in color. At 1st. glance it looks like a fine grained Qtz. Diorite. Very porous with dark carbonaceous particles Upper Contact - w° CA (75' - 90') Lower Contact - 15° CA	057651	<5	0.06
90'	136.5'	<u>HYDROTHERMAL BRECCIA (HETEROLITHOLOGIC)</u> As from 22' - 75'. The section is Calcareous thin-bedded - no significant pyrite. 90' - a 6cm. section of breccia type 13; Complete silicification of a fractured QP - obliterating the individual fragments, but leaving a striated pattern of a gray micaceous mineral. 91' - a 6" section of QP in H.B. where the Qtz phenocrysts are hematitic. 94 1/2 - 98' - block of QP with a pinkish hue - very distinctly flow-banded white to brown-gray - very siliceous. At 96' - a 1cm. carbonaceous fragment within flow banded QP. 99' - discontinuous veins and patches of creamy white Qtz. 100' - 105' : QP blocks and nucleus fragments within the H. breccia are internally	057651	<5	
			057652	<5	
			057653	<5	

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Au	Ag
		and distinctly flow-banded. Quartz color varies from brown-gray to a creamy white. At times this matrix zoning is obliterated by complete silicification. Other times it is disrupted by patchy silicification = zoning - creating unique local textures.		116	117
		105'-110'	US3654	<5	
		116'-125' - Very blocky section of coarse - clay rich.	110-115'	US3655	<5
		115'-120'	US3656	<5	
		131 1/2' - About a one foot section of intense silicification of QP and dark matrix hydrothermal vein breccia, destroying all previous texture and leaving a diffuse section of a dark-cloudy quartz.	120-125'	US3657	<5
		125'-130'	US3658	<5	
		130'-136 1/2'	US3659	<5	
136 1/2'	145'	<u>HYDROTHERMAL BRECCIA (MONOLITHOLOGIC)</u>			
		Identified in hole #5 and called type 1C. Essentially an intensely fluid brecciated QP section (an early brecciation event) - resulting in a very fine grained - matrix supported, monolithologic hydrothermal breccia. Matrix consists of very fine grained creamy-white quartz.	136 1/2'-141'	US3660	11 <0.01
		A subsequent Qtz. intrusion related in a patchy and wispy gray pattern thru-out. This section is very dense and was noted initially in the drill core pressure necessary to cut.	141'-145'	US3661	<5 <0.01

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Ag	Ar
145'	206'	<u>HYDROTHERMAL BRECCIA (HETEROLITHOLOGIC)</u>		0.06	0.7m
		<p>Interlocking cementitious nodules together with small veins-veinlets of a gray matrix - locally hematite rich - material with occasional carbonaceous clasts, penetrate and brecciate sections of both previously brecciated and silicified QP, and towards the end-larger sections of flow - brecciated QP.</p> <p>This section is calcareous thru-out, especially from 147'-165'. There are intermittent clay rich sections of a more porous (crushed) material.</p> <p>145'-148' - Unique hydrothermal breccia in that fragments are predominantly of quartz, of a white-gray-black color, rounded or partly so in a very siliceous gray to black matrix. Spotty pyrite to 2%.</p> <p>At 148' a 2cm. semi-rounded gray Qtz. clast is replaced by amethyst for some distance inward from the surface edge.</p>			
			145-148'	0.53662	4.5
		<p><u>148'-170' :</u></p> <p>A distinct section of white quartz / Qtz. carbonate veneer - much of a discontinuous nature, the through-going veinlets cross both breccia matrix and clasts - the latter being predominantly of previously brecciated QP (1B and 1C types noted previously in Note # 5).</p>			0.04

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Au	Ag
		A dominant picture-purple hydrothermal texture occurs thru section 170'-177'.		PPb	PPm
		178 1/2'-200' (177'-182')	US3669	<5	0.08
		Low intense dark breccia matrix hydrothermal association of flow-banded OP, which color is generally of a peach-pink hue - at times with minor sections of a greenish (relict) color.			
		189'- Amethyst veinlet.			
		192'-200' - Larger fragments within breccia matrix of a provisionally associated and silicified OP - displaying irregular to circular textures replaced by Amethyst.			
		The section 178 1/2'-200' has a dominant fracture pattern of 35°-45° PA - most often with clear polymers.			
		200' - end.			

GRID Anomaly E HOLE NO. CGGC-7 COORDINATES L11+200E / 9+750N

BEARING 45° Az. ANGLE -50° DEPTH 296'

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY		
				Au	Ag	
0	25'	OVBN		ppb	ppm	
25'	141'	<u>RHYOLITE - QUARTZ FELDSPAR PORPHYRY - QFP</u> Gray qtz. lfs and feldspar phenocrysts in a greenish to gray groundmass. Feldspars are clay altered from 25' - 121'. 25'-44' - consistently calcareous 44'-141' - only occasionally calcareous - there is no surficial oxide here. 26' - Pyrite // to fracture 50°C A 36' - Fracture with green clay - 50°C A 37 1/2' - 2" clay altered crush zone at 55°C A - disseminated fine pyrite to 38 1/2' (37 1/2' - 39 1/2') 53 1/2' - pyrite beam at 45°C A 64' - Amethyst veinlet 66' + 67' - Amethyst veinlet + Qtz. phenocryst replacement 67-68' - a marked increase in a green Qtz. groundmass. 68' - 2" crush-clay zone at 60°C A 71' - Pyrite beam at 45°C A 72' - Amethyst 73'-74' - Strong pyrite in fracture parallel to CA. (66'-74') 75'-76' - Amethyst veinlets - also located at 77' + 86' + 87' + 93'. <u>130'-141' :</u> Very fine grained greenish-matrix supported monolithic (OP) H.B. - noted in hole # 5 as type 1C. It has				
			053670	11	0.08	
			053671	9	—	

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				A _n	A _s
		C. crushed appearance.		ppb	ppm
		(135 1/2 - 141)	05367a	25	—
		141' - Fault Contact			
141'	296'	FAULT BRECCIA SECTION OF PREVIOUSLY HYDROTHERMALLY BRECCIATED MATERIAL (HETEROLITHOLOGIC)			
		A great proportion of this section consists of variably crushed hydrothermal breccia consisting of, when observable, of generally less than 1 cm. size clasts of clay altered QP. Other clasts noted are of blue-gray or white and amethyst quartz. Matrix to the above is of a dark gray (black) to light gray color peppered with < 1 mm. in diameter carbonaceous fragments.			
		Many instances of an increase in carbonaceous substance occurs - at times in vugs - when it has been tentatively deemed to be PYROBITUMEN - the solid hydrocarbon characteristic of Carlin-type gold deposits.			
		The more intact sections invariably, not flattened Qtz. Carb. veinlets. There are none so crushed and fluidized that one might refer to them as sandstone.			
		<u>Alteration:</u>			
		Calcareous thru section - except where totally crushed and fluidized. Clay is ubiquitous as a matrix in coarsely crushed zones. There are			

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Au PPb	Ag PPm
		Number a no. of sections where the more finely grained material is indurated by Qtz. Sulphides are generally not observed. A no. of localized occurrences coincide with hydrofractured zones			
		141'-151' - A dark matrix micro-breccia with Qtz. vein network.			
		(141'-146')	056243	<5	0.10
		155' - Qtz. Carb. veinlet 60° CA (146'-151')	056244	<5	0.12
		159' - Qtz. vein along fracture 55° CA			
		163' - " " " " "			
		183' - An 8" section of completely intact t.l.b. with a 1/2" rounded clast of material as in 173 1/2 - 245' in hole # 5. (Hematite + pyrite etc).	(158'-163') 057673	<5	0.10
		(182 1/2 - 189')	057674	<5	0.14
		193'-215':			
		SANDSTONE (fluidized sand + breccia)			
		193' - Very apparent Carbonaceous material - <u>PYROBITUMEN?</u> This notable Carbonaceous presence is noted thru the section as patches and wisps along fluidizing flow solutions. It is non-calcareous - much Sericite			
		215'-224' - <u>HYDROTHERMAL BRECCIA</u> - Clay altered and slightly crushed			
		This section carries angular Pyrobitumen clasts to several inches in diameter. Calcareous - prominent fractures at 55°-60° C.A.			

Logged by A. Carby

Hole Number C.G.C.-7

Sheet Number 3

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Au	Ag
		217'-220' - Pyrite increases at 217' as patches in gray matrix Hydrothermal Breccia - also in Clay altered previously brecciated QP clasts. These clasts have a prominent bleached reaction rim, with very fine blue-gray sulphides visible further within.			
		Interesting to note is that black matrix breccia clasts occur within the later gray matrix breccia, which is pyrite rich.			
		Discontinuous milky-white Qtz. Veining begins at 217'. (215'-220')	053675	<5	0.09
		220' - occasional Qtz. filled vugs with pyrite. Unique blue Qtz fragment ≈ 3mm. Also at 220' - a short vein breccia - hydrofracture texture noted.			
		220'-224' - Core is more crushed - although a still evident gray-matrix Hydrothermal Breccia persists. There are occasional discontinuous Qtz. Veins that cross both matrix and clasts. Reaction rims plus fine blue-gray sulphides still observed in QP clasts. (220'-224')	053676	<5	0.12
		<u>224'-233' - SANDSTONE (fluidized fault breccia)</u>			
		As 103' - 215'			

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Au	Ag
		233'-241'-HYDROTHERMAL BRECCIA <u>Clay altered and slightly crushed</u>		PPb	PPm
		Texture is still unrecrystallized.			
		237'-Core is more competent - Siliceous - a large (4") previously brecciated QP clast with a blue-gray hue, pits in a black matrix. The clast has a very irregular, feathered edge.			
		238'- Pyrite patches in black matrix of the breccia and disseminated in altered QP clasts	(233'-237') 053672	>5	0.12
		238½'-241'- A block of previously brecciated QP is strongly hydrofractured by cementing thin vein and veinlets of pyrite rich - black matrix material. Thin fractures within this same block are filled with pyrite	(237'-241') 053678	>5	0.08
		241'-243½': <u>Strongly Clay Altered and Crushed Hydrothermal Breccia</u>			
		245': Coarse pyrite in black matrix breccia near white Qtz. vein at 50' CA.	(241'-247') 053679	<5	0.09
		245'-281' Essentially a gray matrix Hydrothermal Breccia - variably crushed and clay altered - with short intervals of sandstone like material. Interesting in that this section of gray matrix Hydrothermal Breccia has within it clasts of the dark matrix H.B.			

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Au	Ag
		Hole above. Previously precipitated		Ppb	Ppm
		QP clasts still have a reaction			
		Thin and blue-gray center (247-252')	053680	>5	—
		246' - Good pyrite in a fracture			
		QP clast. (252-257')	053681	<5	—
		279' - C. 1" clast within a			
		gray fine matrix hyd. precip. of			
		the pyrite-hematite section obtained			
		in hole # 5.			
		221' - 296' - SANDSTONE (fluidized fault breccia)			
		As 103' - 215'			
		296' - end of hole.			

GRID Annex E HOLE NO. CGGC-8 COORDINATES L11-300E / 9+693N

BEARING 45° Az. ANGLE -85° DEPTH 115 ft.

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Au	Ag
0'	3'	OVBN		PPb	PPm
3	15'	<u>RHYOLITE (QUARTZ FELDSPAR PORPHYRY)</u> Gray Qtz. lyes and feldspar phenocrysts set in a greenish to gray groundmass. Feldspars are clay altered thru-out. Section is non-calcareous. Surface oxidation to 38'. 3'-8' - Silicified - strongly brecciated QFP - texture is essentially destroyed but low quartz phenocrysts 2 1/2' - 8' - Silicification + veining - Fluorite thru-out. 8'-13' - As above - Much vuggy texture with green crystalline Fluorite + Quartz. (3'-8') 13'-18' - As low 3'-8' generally 16'-17' - intense brecciation (crush) resulting in clay suspended fragments. Fluorite at 16' and 17' as veins and replacements within brecciated material (8'-13') 18'-23' - As low 3'-8' - Qt 20' CA @ 45° @ 2 1/2' CA @ 45°. Qt 22 1/2' CA @ 45° with manganese stain (13'-18') 23'-28' - Silicified - of a granular nature thin Qtz. veins trend along strike oxidized fracture zones. Oxidation is prevalent up to 2" away from fractures (18'-23')	056246	17	0.04
			056247	56	0.10
			056248	30	0.10
			056249	5	0.06

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Ag	Pb
		at 23 1/2' CA @ 90° - at 24' CA @ 55° - 25 1/2' CA 35° and 27 1/2' CA @ 35°		PPb	PPm
			(23-28)	US3601	<5 0.04
		<u>28'-33'</u> As above. more intense mineralization at 32' - a clay matrix. Min staining along all fractures. At 30' - fracture CA @ 45°			
			(28-33)	US3602	<5 0.04
		<u>33'-38'</u> Cave recovery at 83% - Fluorite occurs as patchy green replacements Intense Oxidation at 37' - 38' - CA @ 50°			
			(33'-38')	US3603	<5 0.07
		<u>73'-81'</u> : Sericite alteration more intense. at 78' - a 1cm. thick pyrite filled fracture. This is a shear zone with one face consisting of highly sheared pyrite (smooth face) - with slickensides along the face at 20° to CA. The shear zone also occurs at 20° CA - Irregular pyrite occurs for some distance on either side of this fracture.			
			(77-79)	US3604	109 0.18
		End of Hole @ 115'			

GRID Anomaly E HOLE NO. CGGC-9 COORDINATES 11+25NE / 9670N

BEARING 60° Az. ANGLE -53° DEPTH 253 ft.

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				As	As
0'	14'	DVBN		PPb	PPm
14'	253'	<u>RHYDLITE (QUARTZ FELDSPAR PORPHYRY) QFP</u>			
		<p>Gray Quartz eyes and Feldspar phenocrysts are set in a gray to very light green groundmass.</p> <p>The entire reaction is calcareous - but not in a general sense. The upper portion appears to be more calcareous at or near oxidized structures.</p> <p>Further down and to the end of the hole, occasional individual Feldspar phenocrysts and simple fractures are calcareous.</p> <p>Feldspars are clay altered thru-out. A green clay mineral is prominent in many fractures, and locally is prominent in the groundmass.</p> <p>Surface oxidation continues to 60' - becoming less intense at 42'. Manganese stain prominent along fractures in the zone of oxidation.</p> <p><u>Fracture patterns:</u></p> <p>23' - 20° + 45° CA</p> <p>45' - 20° to CA</p> <p>46' - 30° " "</p> <p>60' - 30° " "</p> <p>76' - 30° " " + pyrite</p> <p>116' - 35° " "</p> <p>122' - 30° " " + pyrite</p> <p>158' - 35° " "</p>			
			(322'-372')	153(As)	>5 0.04

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Au	Ag
		<u>210'-212'</u> - Irregular green Fluorite Veining		PPB	PPM
		<u>212'</u> - Pyrite Fracture @ 30° CA			
		<u>216'</u> - Green Fluorite, fracture verticalized at 15° and 30° CA			
		<u>217 1/2'</u> - Pyrite fracture @ 15° CA			
		<u>218'-221 1/2'</u> - FAULT			
		Micro-breccia - intense crushing. Gravel size fragments in a white clay matrix.			
		Clay suction made it difficult to remove this section of core from the tube.			
		At 220' in centered approx. 1 foot of thin vein banded clear quartz and Ormetopyt.			
		(218 1/2'-221 1/2')	US1604	14	0.08
		End of Hole - 253'			

GRID Annex E HOLE NO. CGGC-10 COORDINATES Line 11+193E / 9711N

BEARING 60° Az ANGLE -60° DEPTH 123 ft.

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				A ₂	A ₃
0'	26'	UVBN		PPb	PPm
26'	123'	<u>RHYOLITE (QUARTZ FELDSPAR PORPHYRY) QFP</u>			
		<p>Gray Qtz. eyes and feldspar phenocrysts are set in a gray-green groundmass - varying to a dominantly light greenish hue where brecciation, fluid flow and resultant silicification is most intense (94'-103').</p> <p>The noted brecciation, fragment movement and fluid flow varies from <u>intense</u> to <u>less intense</u>. In the latter case, porphyritic texture is essentially intact - indicating brittle fracture, but restricted fragment displacement. The gray groundmass is replaced to varying degrees, leaving a gray-green matrix. In the former case, a green matrix monolithologic hydrothermal breccia is at times noted, together with some portions displaying fluid flow foliations. The porphyritic texture is destroyed.</p> <p><u>Alteration:</u></p> <p>The less intensely silicified sections are generally of a more granular nature - suggesting a higher clay content - 26'-94' and 103'-123'. 26'-63' - very calcareous. 63'-108' - calcareous in a sporadic fashion - also not that intense - 108'-123' - very calcareous.</p>			

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Au	Ag
		The dominant greenish hue noted from 44'-90' is most likely reflecting the increased presence of pyrite.		ppb	ppm
		<u>26'-42'</u> A grayish-green aspect to core - micro-brecciated clay matrix with any intact dolerites attached to clay. Occasional chert breccia occurs transverse the core. Close examination shows pinpoint of reflected light - indicating fine sulphides or, more likely, finely divided carbonaceous material. There is no surface oxide zone. Pyrite is present as widely dispersed flecks or along thin fractures. A tan colored clay material occurs in thin seams and patches from 31'-42'	US3605	52	0.07
			US3606	15	0.05
			US3607	50	0.07
		<u>42'-47'</u> At 42' - white clay zone - micro-brecciated. 43'-44' - Begins as clay rich to more competent (silicified) section of chert patches (sulphides?). 44'-47' - Strongly silicified - fine grained greenish core with wispy dark gray sections. Close examination indicates that the greenish, fine grained silicified breccia is the last phase of precipitation, for it envelopes the more gray colored material noted earlier.			
			US3608	5	0.06

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Au	Ag
		(A+ 45'4" - Occurs a 5" section that appears to be a gray matrix vein breccia breaking up and penetrating a thin, banded white to gray quartz.		ppb	ppm
		<u>47'-57'</u> Greenish, fine grained silicified micro-breccia envelops gray material occurring as wisps plus patches - it is intensely brecciated.			
		51' - Small patches and seams of iron-oxide mineral occurring only within the gray brecciated portion.			
		52'-54' - More gray color - at 53' occurs a notable preserved breccia & matrix @ 45° CA: A light gray to dark gray fine gr. banding with occasional breccia fragments. All trending in the same direction are seams of intensely silicified greenish micro-breccia.	053609	<5	0.04
		Note: Intense silicification is caused by a dense, non-porous or granular nature of core. A. and. determination was in the next pressure necessary to drill.			
		56' - Fine pyrite with dark gray patches.			
		<u>57'-103'</u> Greenish, fine grained silicified micro-breccia envelops less well brecciated patches with a gray matrix. Porphyritic texture is intact in	053610	<5	0.05

FROM	TO	DESCRIPTION	SAMPLE NUMBER	ASSAY	
				Au	Ag
		Placer - but silicification is intense.		PPb	PPm
		(57'-62')	053681	<5	0.03
		70' - Pyrite rim & rounded - Singly brecciated gray QD (1") - Within a greenish breccia matrix.			
		70 1/2' - as at 70' - no pyrite rim. (62'-67')	053684	<5	
		86' - Nice example of gray matrix breccia being broken up by later green matrix since breccia material - a subtle jig-saw type pattern has developed. (67'-72')	053685	<5	
		88' - Amethyst replacements of quartz phenocrysts. (72'-77')	053686	<5	
		90' - Brecciation is more intense broken fragments of quartz phenocrysts are replaced by amethyst. Also - inclusions of amethyst have been disrupted. (77'-82')	053687	<5	
		98'-99' - pyrite fracture parallels core. (82'-87')	053688	<5	
		(87'-92')	053689	<5	
		102 1/2' - 103' - white clay fracture @ 45° CA.			
		(92'-97')	053690	<5	
		<u>103'-123'</u> : (97'-102')	053691	<5	0.02
		Less siliceous core - with a more granular surface texture - suggesting a higher clay content. Porphyritic texture is consistently intact from 107'-123'.			
		107' - Pyrite along variably oriented fractures. (102'-107')	053692	<5	
		110' - Clay fracture @ 30° CA.			
		114 1/2' - pyritic fracture @ 15° CA			
		115' - " " " 45° CA			
		123' - " " " 60° CA			
		123' - End of Hole.			

APPENDIX 4

ANALYTICAL RESULTS



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

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To: CARLOS, ALLEN
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 WHITEHORSE YT Y1A 4T1

Page #: 2 - A
 Total # of pages : 4 (A - D)
 Date : 12-Dec-2002
 Account: TFI

Project : Canyon Gold

CERTIFICATE OF ANALYSIS VA02006301

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg	Au-AA24 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
053612		1.28	<0.005													
053613		1.34	<0.005													
053614		1.46	<0.005													
053615		0.92	<0.005													
053616		2.08	<0.005													
053617		1.60	0.037													
053618		1.82	<0.005													
053619		1.88	<0.005													
053620		1.94	<0.005													
053621		2.26	<0.005													
053622		1.82	<0.005													
053623		1.86	0.006													
053624		1.64	<0.005													
053625		2.28	0.009	0.13	0.37	15.6	<10	87.6	2.71	0.26	2.32	0.21	64.7	12.8	49	2.44
053626		2.04	<0.005	0.10	0.49	5.1	<10	123.5	2.58	0.05	4.68	0.11	44.3	22.4	55	2.72
053627		1.78	<0.005	0.08	0.35	2.6	<10	83.3	1.72	0.15	3.88	0.16	89.6	10.3	52	1.26
053628		1.98	0.013	0.15	0.50	19.6	<10	104.5	2.47	0.06	4.30	0.11	58.6	21.4	41	2.04
053629		2.10	0.037	0.21	1.32	47.9	<10	126.0	2.72	0.02	5.06	0.08	52.8	24.8	32	4.25
053630		2.06	0.017	0.08	0.53	31.2	<10	112.0	2.62	0.01	4.63	0.07	52.5	27.2	25	3.37
053631		2.24	0.092	0.29	0.50	133.0	<10	108.0	2.61	0.01	4.50	0.07	47.4	26.5	28	3.10
053632		1.96	0.065	0.25	0.58	97.2	<10	124.5	2.75	0.01	3.47	0.08	53.5	24.0	26	3.53
053633		1.98	0.009	0.11	0.44	21.9	<10	125.0	3.00	0.09	3.82	0.13	47.7	17.9	50	2.58
053634		1.90	0.008	0.13	0.47	7.4	<10	117.0	2.74	0.06	2.68	0.13	43.6	17.3	41	2.45
053635		1.80	0.006	0.11	0.41	9.0	<10	110.0	2.68	0.07	3.20	0.25	43.9	16.3	51	2.70
053636		1.66	0.034	0.16	0.48	56.3	<10	125.5	2.57	0.07	2.58	0.21	33.7	17.5	40	2.82
053637		1.88	0.012	0.08	0.45	11.2	<10	119.5	2.26	0.03	4.24	0.11	45.9	19.7	55	1.99
053638		1.86	<0.005	0.06	0.49	3.2	<10	167.5	4.00	0.04	4.02	0.11	50.1	26.9	69	2.59
053639		2.14	<0.005	0.06	0.40	8.7	<10	126.5	2.37	0.13	3.35	0.18	76.9	14.0	45	2.02
053640		1.66	<0.005	0.07	0.34	6.7	<10	59.8	2.46	0.16	1.43	0.24	141.0	7.6	38	2.26
053641		2.08	0.009	0.07	0.28	10.6	<10	49.0	2.01	0.12	1.50	0.19	120.0	5.7	49	1.85
053642		1.76	<0.005													
053643		1.80	<0.005													
053644		1.52	<0.005													
053645		1.86	<0.005													
053646		1.86	<0.005													
053647		1.28	<0.005													
053648		2.22	<0.005	0.09	0.32	7.8	<10	48.6	2.31	0.22	1.08	0.20	149.5	7.8	38	2.20
053649		1.30	<0.005	0.07	0.40	8.8	<10	66.4	4.19	0.15	1.32	0.13	81.5	13.5	40	4.75
053650		1.78	<0.005	0.06	0.30	9.8	<10	60.6	2.18	0.14	0.71	0.24	19.20	10.1	44	1.65
053651		1.98	<0.005													

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown.



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 Account: TFI

Project : Canyon Gold

CERTIFICATE OF ANALYSIS VA02006301

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA24 Au ppm 0.005	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 B ppm 10	ME-MS41 Ba ppm 0.2	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1	ME-MS41 Cs ppm 0.05
053652		1.88	<0.005													
053653		1.62	<0.005													
053654		1.42	<0.005													
053655		1.56	<0.005													
053656		1.66	<0.005													
053657		0.76	<0.005													
053658		1.54	<0.005													
053659		2.44	<0.005													
053660		1.74	0.011	<0.01	0.41	7.1	<10	70.1	0.54	0.04	1.02	0.03	110.0	0.8	61	1.20
053661		1.14	<0.005	<0.01	0.26	3.2	<10	56.7	0.68	0.06	0.84	0.06	115.5	1.2	80	1.23
053662		0.70	<0.005	0.04	0.26	2.5	<10	65.6	1.76	0.13	1.03	0.08	43.2	7.3	77	2.27
053663		2.10	<0.005	0.05	0.40	5.8	<10	77.3	3.43	0.16	3.81	0.10	76.5	21.4	55	2.29
053664		1.76	<0.005	0.07	0.38	4.9	<10	73.1	2.75	0.14	4.28	0.12	96.8	18.2	54	2.08
053665		1.88	<0.005	0.07	0.46	13.3	<10	75.8	3.51	0.12	4.38	0.10	66.7	25.7	46	2.91
053666		2.04	<0.005	0.07	0.37	8.8	<10	71.2	3.65	0.15	3.61	0.15	89.6	15.2	39	4.01
053667		2.32	<0.005	0.09	0.34	6.7	<10	64.4	3.28	0.19	2.47	0.19	123.0	9.4	32	3.06
053668		0.92	0.007	0.08	0.49	16.5	<10	90.7	3.79	0.10	2.39	0.11	54.2	24.2	52	4.86
053669		1.84	<0.005	0.08	0.36	8.2	<10	66.7	2.65	0.17	2.82	0.55	113.5	15.2	48	2.45
053670		0.84	0.011	0.08	0.22	7.2	<10	19.5	1.70	0.34	0.23	0.19	165.5	1.0	62	2.75
053671		2.56	0.009													
053672		2.26	<0.005													
053673		2.20	<0.005	0.10	0.59	12.9	<10	184.5	1.30	0.09	2.24	0.34	28.0	24.9	32	3.34
053674		2.00	<0.005	0.14	0.44	14.3	<10	175.5	1.00	0.16	1.13	0.43	19.15	16.7	32	3.39
053675		1.84	<0.005	0.09	0.52	10.8	<10	162.0	1.24	0.12	3.14	0.29	18.05	18.4	34	2.38
053676		1.46	<0.005	0.12	0.52	8.4	<10	178.0	1.25	0.13	1.62	0.39	22.1	20.3	35	2.59
053677		1.26	<0.005	0.12	0.61	8.3	<10	123.5	1.20	0.14	1.30	0.33	15.40	22.1	60	3.27
053678		1.68	<0.005	0.08	0.64	10.4	<10	144.0	1.45	0.23	4.19	0.36	42.3	31.2	59	1.79
053679		1.56	<0.005	0.09	0.63	7.4	<10	133.5	1.22	0.10	3.28	0.27	21.3	21.0	51	1.82
053680		2.14	<0.005													
053681		1.70	<0.005													
053682		0.68	0.109	0.18	0.25	114.5	<10	21.3	2.10	0.05	0.10	0.18	161.0	1.2	99	2.79
053683		1.60	<0.005	0.04	0.47	3.0	<10	46.9	2.01	0.15	0.36	0.20	169.0	1.2	116	3.03
053684		1.58	<0.005													
053685		2.02	<0.005													
053686		2.04	<0.005													
053687		1.64	<0.005													
053688		1.72	<0.005													
053689		1.84	<0.005													
053690		1.90	<0.005													
053691		1.26	<0.005	0.02	0.33	1.1	<10	140.0	1.94	0.05	0.64	0.23	167.5	0.7	22	3.11

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown.



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Project : Canyon Gold

CERTIFICATE OF ANALYSIS	VA02006301
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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg	Au-AA24 Au ppm	ME-MS41 Ag ppm	ME-MS41 Al %	ME-MS41 As ppm	ME-MS41 B ppm	ME-MS41 Ba ppm	ME-MS41 Be ppm	ME-MS41 Bi ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 Cs ppm
053692		2.08	<0.005													
053693		0.76	0.013	0.01	0.05	3.4	<10	230	0.25	<0.01	5.26	0.03	1.35	72.3	391	1.39
053694		0.58	0.013	>100.0	0.01	942	<10	67.9	<0.05	0.88	1.54	25.3	1.26	0.7	135	0.07
053695		0.80	<0.005	0.72	2.03	<2.0	<10	270	0.77	0.13	10.20	0.19	23.5	7.8	36	1.06
053696		0.32	<0.005	0.82	0.05	6.1	<10	270	0.05	0.01	0.39	0.17	2.41	0.8	158	<0.05

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown.



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CERTIFICATE OF ANALYSIS VA02006301

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cu ppm 0.2	Fe % 0.01	Ga ppm 0.05	Ge ppm 0.05	Hf ppm 0.02	Hg ppm 0.01	In ppm 0.005	K % 0.01	La ppm 0.2	Li ppm 0.1	Mg % 0.01	Mn ppm 5	Mo ppm 0.05	Na % 0.01	Nb ppm 0.05
053612																
053613																
053614																
053615																
053616																
053617																
053618																
053619																
053620																
053621																
053622																
053623																
053624																
053625		16.0	3.71	1.40	0.09	0.38	0.08	0.058	0.21	31.6	6.1	0.78	699	3.73	0.11	0.18
053626		24.8	4.79	1.49	0.09	0.10	0.03	0.041	0.25	21.2	7.8	1.77	1110	1.31	0.15	0.08
053627		7.0	3.21	1.16	0.08	0.22	0.05	0.045	0.18	44.6	5.5	1.51	708	2.62	0.10	0.10
053628		20.0	5.33	1.69	0.11	0.12	0.10	0.046	0.27	28.0	8.7	1.44	1070	1.02	0.12	0.09
053629		31.6	6.05	3.92	0.14	0.10	0.14	0.044	0.58	24.3	9.9	1.10	1220	0.34	0.14	0.12
053630		26.9	6.25	1.58	0.12	0.07	0.25	0.048	0.33	24.3	9.9	1.34	1250	0.19	0.14	0.09
053631		26.4	6.20	1.45	0.12	0.07	0.21	0.040	0.31	21.9	9.5	1.32	1165	0.24	0.13	0.10
053632		31.1	5.85	1.63	0.11	0.08	0.25	0.046	0.35	24.7	10.2	1.04	903	0.14	0.13	0.09
053633		18.7	4.45	1.46	0.09	0.12	0.08	0.057	0.23	23.1	9.1	1.44	952	1.20	0.14	0.06
053634		15.6	5.35	1.55	0.10	0.13	0.14	0.050	0.25	20.4	8.8	0.98	730	1.02	0.14	0.09
053635		21.9	4.50	1.39	0.09	0.11	0.07	0.045	0.22	20.4	8.3	1.34	876	0.74	0.13	0.07
053636		16.6	4.53	1.62	0.09	0.09	0.06	0.048	0.25	15.5	8.3	1.32	832	0.58	0.14	0.06
053637		14.0	5.26	1.71	0.10	0.11	0.10	0.058	0.22	21.8	8.7	1.40	1135	0.33	0.13	0.09
053638		19.8	5.54	1.46	0.12	0.08	0.03	0.054	0.23	23.0	13.0	1.90	1055	0.55	0.15	0.07
053639		8.3	3.68	1.53	0.08	0.18	0.02	0.060	0.20	37.6	7.3	1.29	761	1.84	0.12	0.08
053640		6.5	2.74	1.49	0.08	0.55	0.03	0.080	0.21	71.9	2.3	0.23	572	3.87	0.03	0.20
053641		7.4	2.34	1.22	0.07	0.58	0.03	0.074	0.19	58.9	2.2	0.29	540	3.87	0.04	0.21
053642																
053643																
053644																
053645																
053646																
053647																
053648		7.8	2.81	1.44	0.09	0.47	0.05	0.078	0.20	75.7	3.9	0.28	539	5.08	0.09	0.20
053649		5.4	3.73	1.71	0.08	0.38	0.02	0.055	0.23	42.9	5.8	0.61	660	4.43	0.11	0.13
053650		7.4	1.90	0.94	0.05	0.09	0.01	0.014	0.21	10.2	3.7	0.41	343	3.68	0.05	<0.05
053651																

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown.



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CERTIFICATE OF ANALYSIS VA02006301

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
053652		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	0.05
053653																
053654																
053655																
053656																
053657																
053658																
053659																
053660		3.5	0.95	2.44	0.08	3.21	0.03	0.009	0.26	55.8	1.8	0.10	178	4.55	0.08	18.00
053661		2.4	1.01	1.66	0.07	2.38	0.02	0.013	0.18	59.4	1.9	0.12	181	4.33	0.06	7.39
053662		8.5	2.39	1.13	0.05	0.36	<0.01	0.019	0.16	24.6	3.5	0.38	347	2.28	0.07	0.64
053663		14.2	4.85	1.53	0.11	0.21	0.03	0.052	0.20	38.3	7.0	1.46	1100	2.31	0.12	0.21
053664		12.8	4.58	1.43	0.11	0.28	0.02	0.062	0.19	48.7	7.0	1.34	1045	2.93	0.12	0.15
053665		24.4	5.53	1.58	0.13	0.14	0.02	0.057	0.25	32.4	6.3	1.10	1315	1.18	0.12	0.14
053666		9.3	4.03	1.49	0.10	0.27	0.02	0.060	0.20	44.8	6.3	0.83	1010	2.25	0.13	0.14
053667		9.9	2.85	1.35	0.10	0.37	0.02	0.067	0.20	62.5	4.9	0.56	757	3.75	0.11	0.13
053668		17.8	5.00	1.94	0.12	0.13	0.04	0.049	0.27	27.1	6.1	0.68	1175	1.26	0.17	0.11
053669		12.9	3.88	1.58	0.11	0.39	0.05	0.066	0.19	58.2	4.8	0.57	905	2.82	0.11	0.17
053670		3.9	1.39	0.97	0.10	0.43	0.01	0.068	0.25	86.8	1.6	0.05	241	2.68	0.02	0.30
053671																
053672																
053673		28.2	4.86	1.72	0.11	0.11	0.12	0.058	0.21	13.2	12.9	1.86	989	1.88	0.28	0.08
053674		27.1	3.68	1.40	0.08	0.12	0.20	0.056	0.18	8.8	11.1	1.10	621	1.98	0.21	0.07
053675		22.6	3.34	1.90	0.07	0.12	0.30	0.056	0.19	8.8	7.8	1.68	658	2.37	0.22	0.06
053676		27.0	3.57	1.95	0.08	0.11	0.27	0.078	0.19	11.0	9.8	1.29	671	2.26	0.24	0.06
053677		58.3	3.65	2.17	0.09	0.11	0.27	0.058	0.24	7.4	9.0	1.22	627	2.95	0.24	0.07
053678		64.3	5.82	2.77	0.14	0.10	2.15	0.062	0.14	20.8	9.9	2.87	1080	2.73	0.23	0.26
053679		26.0	4.48	2.38	0.11	0.14	0.82	0.054	0.19	10.4	7.8	1.99	826	3.14	0.21	0.10
053680																
053681																
053682		5.2	1.67	1.20	0.10	0.46	0.12	0.061	0.25	78.7	1.5	0.03	241	5.15	0.01	0.28
053683		11.4	1.62	2.38	0.10	0.89	0.09	0.066	0.30	86.0	0.9	0.03	352	2.99	0.01	0.51
053684																
053685																
053686																
053687																
053688																
053689																
053690																
053691		5.5	1.30	1.77	0.10	0.85	0.01	0.064	0.27	86.1	1.4	0.03	359	2.38	0.02	0.51

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown.



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CERTIFICATE OF ANALYSIS VA02006301

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
053692		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01	
053693		9.3	2.80	0.41	0.10	<0.02	1.88	<0.005	0.02	0.7	2.5	12.75	639	0.30	0.01	0.07
053694		5050	0.25	0.60	0.47	0.02	1.81	0.014	0.01	1.1	0.2	0.10	34	4.37	<0.01	0.05
053695		31.9	1.82	6.11	0.17	0.08	0.02	0.029	0.54	15.0	16.2	4.27	367	2.30	0.01	0.19
053696		30.1	0.32	0.42	<0.05	0.04	0.04	<0.005	0.01	3.2	0.3	0.03	21	1.18	<0.01	0.06

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown.



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CERTIFICATE OF ANALYSIS VA02006301

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Tl %
053612		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2	0.01
053613																
053614																
053615																
053616																
053617																
053618																
053619																
053620																
053621																
053622																
053623																
053624																
053625		18.4	840	24.3	15.6	0.002	0.13	0.51	5.0	0.5	0.7	136.0	0.01	0.01	9.8	<0.01
053626		28.6	1360	7.3	14.0	0.001	0.02	0.39	8.0	<0.2	0.3	192.0	0.01	<0.01	1.6	<0.01
053627		13.4	790	15.9	10.7	0.002	0.03	0.33	4.3	0.2	0.5	196.5	0.01	<0.01	5.4	<0.01
053628		27.9	1770	7.0	17.6	0.001	0.43	1.02	6.8	0.4	0.3	165.5	0.01	<0.01	2.5	<0.01
053629		34.0	2370	5.2	41.1	0.001	0.80	1.90	8.2	0.3	0.3	168.0	0.01	<0.01	0.8	<0.01
053630		45.2	2400	4.2	24.3	0.001	0.75	1.88	8.2	0.3	0.2	186.0	0.01	<0.01	0.9	<0.01
053631		35.1	2360	6.3	22.5	0.002	1.54	2.80	7.6	0.4	0.2	169.0	0.01	<0.01	0.9	<0.01
053632		30.6	2390	5.0	25.4	0.002	1.43	1.98	7.3	0.3	0.3	139.5	0.01	<0.01	1.2	<0.01
053633		24.8	1470	9.0	16.2	0.002	0.46	0.47	6.9	0.3	0.4	171.5	0.01	<0.01	2.9	<0.01
053634		18.1	1960	9.6	17.2	0.002	0.66	0.59	6.0	0.3	0.3	100.0	0.01	<0.01	1.9	<0.01
053635		20.5	1450	8.1	16.6	0.002	0.41	0.40	7.1	0.3	0.3	131.5	0.01	0.01	1.6	<0.01
053636		19.8	1530	8.4	18.2	0.001	0.74	0.79	6.9	0.5	0.3	118.5	0.01	<0.01	1.5	<0.01
053637		16.5	2090	4.4	15.0	0.002	0.46	0.56	7.1	0.3	0.2	126.0	0.01	<0.01	1.2	<0.01
053638		34.1	1320	4.5	14.4	0.002	0.09	0.33	13.0	0.2	0.3	216	0.01	<0.01	1.6	<0.01
053639		18.8	970	14.6	13.8	0.002	0.03	0.16	5.2	0.4	0.5	158.5	0.01	<0.01	5.2	<0.01
053640		9.5	530	25.3	14.8	0.002	0.03	0.23	3.6	0.3	0.9	89.6	0.01	<0.01	11.0	<0.01
053641		9.7	360	26.7	13.2	0.002	0.08	0.42	3.2	0.4	0.9	90.7	0.01	<0.01	13.5	<0.01
053642																
053643																
053644																
053645																
053646																
053647																
053648		8.7	500	25.9	15.0	0.002	0.17	0.41	3.8	0.4	0.9	71.8	0.01	<0.01	10.2	<0.01
053649		19.6	940	20.0	20.0	0.002	0.03	0.20	4.9	0.3	1.3	94.3	0.01	<0.01	9.1	<0.01
053650		29.4	490	9.4	17.5	0.002	<0.01	0.30	2.4	<0.2	0.6	45.7	<0.01	<0.01	2.5	<0.01
053651																

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown.



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Project : Canyon Gold

CERTIFICATE OF ANALYSIS VA02006301

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	
		Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Tl %
053652		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.01	0.01	0.2	0.01	
053653																
053654																
053655																
053656																
053657																
053658																
053659																
053660		2.2	10	36.4	20.0	0.002	0.08	0.40	1.6	0.6	0.8	63.2	0.02	<0.01	44.7	<0.01
053661		3.1	10	42.3	15.6	0.002	0.05	0.21	1.4	0.5	0.6	69.0	0.03	<0.01	44.2	<0.01
053662		15.2	880	10.1	14.5	0.001	<0.01	0.12	3.8	<0.2	0.6	60.3	<0.01	<0.01	3.6	<0.01
053663		29.2	1270	10.0	15.2	0.002	0.01	0.15	8.9	0.3	0.8	204	0.01	<0.01	3.5	<0.01
053664		33.0	1420	13.7	14.8	0.002	0.02	0.19	8.2	0.4	0.6	233	0.01	<0.01	4.7	<0.01
053665		43.0	1930	9.4	19.6	0.002	0.04	0.35	10.0	0.3	0.5	205	0.01	<0.01	2.8	<0.01
053666		20.2	1010	19.6	16.6	0.002	0.01	0.26	6.1	0.3	0.7	202	0.01	<0.01	5.6	<0.01
053667		12.2	600	24.0	15.2	0.002	0.05	0.22	4.1	0.4	1.0	125.5	0.01	<0.01	8.1	<0.01
053668		27.9	2110	9.1	20.3	0.001	0.08	0.26	9.4	0.3	0.5	106.5	0.01	0.04	2.2	<0.01
053669		20.5	1050	27.3	14.6	0.002	0.01	0.19	4.9	0.4	0.9	154.0	0.01	<0.01	6.9	<0.01
053670		2.0	90	31.8	21.7	0.002	0.09	0.31	1.4	0.4	0.5	22.5	0.01	<0.01	11.8	<0.01
053671																
053672																
053673		53.7	1570	8.9	13.4	0.002	0.06	1.32	11.6	0.4	0.5	165.5	0.01	<0.01	4.6	<0.01
053674		46.0	930	14.9	13.4	0.002	0.08	0.56	8.6	0.6	0.6	82.5	0.01	0.01	4.3	<0.01
053675		42.9	810	11.8	11.9	0.002	0.10	0.26	9.4	0.4	0.6	119.0	<0.01	<0.01	2.8	<0.01
053676		47.1	930	11.6	12.0	0.002	0.09	0.30	10.0	0.4	0.6	91.3	0.01	0.01	3.2	<0.01
053677		90.2	780	11.0	15.1	0.002	0.12	0.26	9.7	0.6	0.7	77.6	<0.01	0.01	3.2	<0.01
053678		82.9	2120	4.7	8.8	0.002	0.48	0.34	14.4	0.5	0.7	151.5	0.01	0.02	3.2	0.01
053679		49.5	1310	8.9	10.8	0.002	0.32	0.18	10.4	0.5	0.6	135.5	0.01	<0.01	2.7	<0.01
053680																
053681																
053682		4.7	60	13.8	20.2	0.002	1.02	3.93	0.9	0.5	0.5	11.2	0.01	<0.01	13.8	<0.01
053683		5.8	80	13.9	22.1	0.002	0.03	0.31	1.6	0.5	0.9	9.1	0.01	<0.01	15.2	<0.01
053684																
053685																
053686																
053687																
053688																
053689																
053690																
053691		1.1	80	31.5	21.1	0.002	0.07	0.15	1.6	0.4	0.5	38.1	0.01	<0.01	14.2	<0.01

Comments: Interference: Ca>10% on ICP-MS As,ICP-AES results shown.



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CERTIFICATE OF ANALYSIS VA02006301

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41		
		Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Tl	
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.2	0.01	0.01	0.2	0.01
053692																	
053693		1190	<10	0.5	1.5	0.002	0.45	1.14	9.1	0.2	<0.2	313	<0.01	<0.01	<0.2	<0.01	
053694		8.7	<10	34.4	0.5	0.001	0.20	1880	0.3	152.5	0.5	114.5	<0.01	0.69	<0.2	<0.01	
053695		28.1	680	13.7	23.0	0.003	0.47	5.48	6.2	4.6	0.7	321	<0.01	0.05	5.7	0.05	
053696		7.1	1440	0.9	0.7	0.002	<0.01	9.03	0.6	0.8	0.2	42.4	<0.01	<0.01	0.3	<0.01	

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown.



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CERTIFICATE OF ANALYSIS	VA02006301
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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Ba-AA61	Ag-AA46
		Tl	U	V	W	Y	Zn	Zr	Ba	Ag
		ppm 0.02	ppm 0.05	ppm 1	ppm 0.05	ppm 0.05	ppm 2	ppm 0.5	ppm 10	ppm 1
053612 053613 053614 053615 053616										
053617 053618 053619 053620 053621										
053622 053623 053624 053625 053626		0.10 0.07	1.66 0.25	29 64	0.24 0.20	27.7 23.1	104 95	8.8 3.2		
053627 053628 053629 053630 053631		0.06 0.12 0.23 0.21 0.21	0.47 0.26 0.12 0.12 0.12	32 54 59 56 52	0.07 0.16 0.42 0.31 0.31	19.55 22.9 25.5 24.3 23.5	85 99 103 105 100	4.4 3.7 2.9 2.3 2.2		
053632 053633 053634 053635 053636		0.20 0.08 0.08 0.07 0.08	0.14 0.37 0.31 0.22 0.24	52 50 49 48 45	0.28 0.17 0.18 0.15 0.20	26.1 24.7 24.6 19.35 21.8	105 102 126 106 102	2.6 4.1 5.7 3.7 3.6		
053637 053638 053639 053640 053641		0.07 0.06 0.06 0.08 0.08	0.16 0.23 0.54 1.20 1.29	57 50 30 12 9	0.09 0.19 0.13 0.16 0.16	25.2 30.0 29.9 34.1 36.2	106 109 93 127 99	4.2 2.7 5.0 12.4 12.2		
053642 053643 053644 053645 053646										
053647 053648 053649 053650 053651		0.14 0.10 0.07	0.76 1.22 0.45	13 24 18	0.17 0.17 0.09	33.4 34.3 6.67	111 105 82	11.0 10.6 3.3		

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown.



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CERTIFICATE OF ANALYSIS	VA02006301
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Sample Description	Method Analyte Units LOR	ME-MS41 TI ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Ba-AA61 Ba ppm 10	Ag-AA46 Ag ppm 1
053652 053653 053654 053655 053656										
053657 053658 053659 053660 053661		0.10 0.07	15.20 12.75	1 2	0.91 0.57	87.2 71.1	55 59	49.0 34.4		
053662 053663 053664 053665 053666		0.07 0.07 0.07 0.08 0.07	1.10 0.45 0.47 0.36 0.47	24 46 38 41 31	0.11 0.23 0.46 0.63 0.17	14.10 30.7 33.8 34.1 34.7	73 94 95 97 107	7.7 5.4 5.6 5.0 6.5		
053667 053668 053669 053670 053671		0.08 0.09 0.07 0.10	0.66 0.36 0.54 0.66	19 44 26 1	0.15 0.14 0.15 0.11	34.7 27.7 39.9 27.3	96 111 116 87	8.7 6.2 8.2 9.6		
053672 053673 053674 053675 053676		0.13 0.12 0.10 0.08	1.02 1.00 0.70 0.81	57 33 39 40	<0.05 <0.05 <0.05 <0.05	20.1 17.40 15.30 17.50	102 102 87 108	5.0 4.9 5.5 4.4		
053677 053678 053679 053680 053681		0.09 0.16 0.16	0.80 0.82 0.78	40 73 47	<0.05 0.07 0.05	15.00 20.6 17.80	93 84 85	4.8 8.9 8.6		
053682 053683 053684 053685 053686		0.25 0.12	0.87 1.41	1 2	0.27 0.28	24.0 37.0	89 94	13.1 30.7		
053687 053688 053689 053690 053691		0.09	1.33	1	0.14	37.7	98	26.1		

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown.



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CERTIFICATE OF ANALYSIS	VA02006301
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Sample Description	Method Analyte Units LOR	ME-MS41 Tl ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5	Ba-AA61 Ba ppm 10	Ag-AA46 Ag ppm 1
053692										
053693		0.16	<0.05	16	0.06	0.65	16	0.5	310	
053694		0.03	0.38	2	0.40	2.37	585	0.5	50	206
053695		0.22	1.16	74	0.10	20.8	58	3.2	1000	
053696		<0.02	0.45	4	0.51	10.90	13	2.0	190	

Comments: Interference: Ca>10% on ICP-MS As, ICP-AES results shown.



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CERTIFICATE OF ANALYSIS VA02004052

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA24 Au ppm 0.005	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 B ppm 10	ME-MS41 Ba ppm 0.2	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1	ME-MS41 Cs ppm 0.05
053601 053602 053603 053604 053605		1.76	<0.005	0.04	0.78	0.9	<10	40.7	1.70	0.06	0.51	0.17	180.0	0.9	82	4.07
		1.70	<0.005	0.04	0.41	1.0	<10	41.8	1.52	0.07	0.13	0.19	180.0	0.7	54	3.62
		2.08	<0.005	0.07	0.47	0.7	<10	38.0	1.56	0.12	0.20	0.17	170.0	0.8	78	3.60
		1.10	0.014	0.08	1.81	8.6	20	72.7	3.21	0.20	2.66	0.22	150.0	1.4	113	8.11
		1.52	0.052	0.07	0.36	24.7	<10	29.6	1.73	0.07	0.40	0.24	160.0	1.1	95	2.78
053606 053607 053608 053609 053610		1.60	0.015	0.05	0.34	9.2	<10	36.7	1.94	0.07	0.16	0.25	150.0	1.4	80	3.38
		1.94	0.050	0.07	0.39	31.0	<10	21.3	1.73	0.07	0.17	0.21	160.0	1.1	114	2.57
		1.84	0.005	0.06	0.41	8.8	<10	31.6	2.35	0.07	0.96	0.47	160.0	4.3	84	2.70
		1.74	<0.005	0.04	0.35	4.0	<10	19.4	2.14	0.05	1.32	0.30	160.0	2.1	167	2.50
		1.92	<0.005	0.05	0.52	4.7	<10	29.6	2.04	0.15	0.84	0.14	170.0	1.3	63	2.43
053611 056245 056246 056247 056248		1.84	<0.005	0.03	0.36	1.9	<10	24.6	1.83	0.04	0.87	0.27	170.0	0.9	69	2.80
		0.60	<0.005	0.03	2.12	0.5	<10	73.6	0.83	0.02	9.02	0.13	32.7	19.1	76	1.09
		1.44	0.017	0.04	0.84	5.0	<10	43.8	1.49	0.08	0.75	0.13	150.0	1.2	134	2.89
		1.72	0.056	0.10	1.64	16.1	<10	150.0	1.61	0.21	1.85	0.11	140.0	1.5	212	3.86
		1.76	0.030	0.10	0.69	10.6	<10	38.6	1.82	0.28	0.49	0.15	160.0	1.0	104	4.32
056249		1.56	0.005	0.06	1.38	1.7	<10	81.3	1.89	0.11	1.28	0.16	160.0	0.8	67	3.94



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Project : Canyon Gold

CERTIFICATE OF ANALYSIS VA02004052

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.01	0.01	0.05
053601		3.2	1.64	4.03	0.18	1.07	0.14	0.057	0.50	98.4	1.3	0.03	368	1.48	0.01	0.79
053602		2.8	1.61	2.25	0.17	0.58	0.07	0.053	0.39	102.5	0.9	0.02	377	1.49	0.01	0.27
053603		8.3	1.61	2.47	0.17	0.83	0.07	0.055	0.38	99.6	0.9	0.03	419	2.86	0.01	0.36
053604		2.9	1.34	7.26	0.23	1.47	0.06	0.057	1.03	87.5	4.1	0.03	398	3.15	0.04	2.45
053605		3.8	1.30	1.90	0.18	0.52	0.06	0.049	0.37	94.9	1.3	0.05	382	3.02	0.02	0.29
053606		3.4	1.49	1.70	0.18	0.44	0.05	0.050	0.39	83.9	1.4	0.06	452	5.02	0.02	0.24
053607		2.7	1.58	1.93	0.17	0.43	0.05	0.052	0.39	96.8	1.4	0.06	469	3.11	0.02	0.21
053608		8.6	1.66	1.98	0.17	0.55	0.04	0.051	0.34	92.9	1.5	0.12	414	2.38	0.02	0.24
053609		5.4	1.49	1.89	0.19	0.56	0.04	0.043	0.34	92.6	1.3	0.06	368	3.47	0.02	0.20
053610		3.5	1.46	2.68	0.19	0.62	0.04	0.053	0.46	98.1	1.1	0.05	369	3.04	0.01	0.22
053611		3.1	1.59	2.02	0.19	0.47	0.05	0.055	0.40	99.5	1.0	0.04	453	1.43	0.01	0.24
056245		18.8	4.88	4.82	0.12	0.08	0.03	0.033	0.08	19.5	6.9	3.87	1420	1.53	0.84	0.12
056246		3.0	1.34	4.01	0.16	1.00	0.04	0.055	0.45	84.2	0.8	0.04	295	1.72	0.01	1.05
056247		3.4	1.49	7.47	0.22	1.19	0.04	0.059	1.10	80.6	1.2	0.05	280	2.31	0.02	1.86
056248		3.5	1.57	3.91	0.19	1.00	0.05	0.067	0.41	94.5	0.8	0.02	379	1.55	0.01	0.97
056249		2.6	1.37	6.53	0.21	1.36	0.04	0.055	0.86	98.9	1.1	0.02	329	2.05	0.01	1.49



ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
 Aurora Laboratory Services Ltd.
 212 Brooksbank Avenue
 North Vancouver BC V7J 2C1 Canada
 Phone: 604 984 0221 Fax: 604 984 0218

To: CARLOS, ALLEN
 275 ALSEK RD.
 WHITEHORSE YT Y1A 4T1

Page #: 2 - D
 Total # of pages : 2 (A - D)
 Date : 11-Oct-2002
 Account: TFI

Project : Canyon Gold

CERTIFICATE OF ANALYSIS VA02004052

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		TI	U	V	W	Y	Zn	Zr
		ppm 0.02	ppm 0.05	ppm 1	ppm 0.05	ppm 0.05	ppm 2	ppm 0.5
053601		0.16	1.39	1	0.11	29.2	77	29.6
053602		0.10	1.09	<1	0.10	26.4	72	15.6
053603		0.11	1.28	<1	0.11	26.7	72	20.8
053604		0.27	1.93	1	0.18	37.1	79	40.9
053605		0.16	1.18	<1	0.31	30.3	93	11.7
053606		0.13	0.99	1	0.14	27.7	86	10.4
053607		0.15	1.08	<1	0.13	29.9	90	9.9
053608		0.11	1.27	4	0.21	32.9	82	13.6
053609		0.14	1.42	1	0.18	39.2	107	12.3
053610		0.23	1.67	<1	0.09	39.0	85	12.9
053611		0.15	0.91	<1	0.09	32.5	96	10.9
056245		<0.02	0.43	76	<0.05	10.60	41	5.4
056246		0.14	1.19	1	0.17	20.9	57	25.7
056247		0.30	1.25	2	0.20	21.5	50	31.4
056248		0.11	1.15	1	0.16	22.9	68	26.8
056249		0.22	1.55	1	0.12	28.0	67	36.4



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275 ALSEK RD.
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Page # : 1
Date : 9-Aug-2002
Account: TFI

CERTIFICATE VA02002491

Project : CANYON GOLD

P.O. No:

This report is for 10 DRILL CORE samples submitted to our lab in North Vancouver, BC, Canada on 31-Jul-2002.

The following have access to data associated with this certificate:

ALLEN CARLOS

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% 75micro

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS41	50 element aqua regia ICP-MS	
ME-ICP41i	ICP-AES elements for ME-MS41	ICP-AES
ME-MS41i	ICP-MS elements for ME-MS41	ICP-MS

To: CARLOS, ALLEN
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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Project : CANYON GOLD

CERTIFICATE OF ANALYSIS VA02002491

Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Tl	U	V	W	Y	Zn	Zr
		ppm 0.02	ppm 0.05	ppm 1	ppm 0.05	ppm 0.05	ppm 2	ppm 0.5
056235		0.10	0.29	37	0.10	13.80	71	2.9
056236		0.11	0.47	44	0.09	23.3	75	3.9
056237		0.08	1.56	24	0.19	22.6	61	6.6
056238		0.18	0.47	47	0.13	28.2	90	3.9
056239		0.08	0.21	56	0.23	30.3	100	3.2
056240		0.10	0.21	52	0.31	30.1	87	3.0
056241		0.11	0.21	50	0.28	28.5	84	3.3
056242		0.09	0.29	46	0.30	26.2	92	3.2
056243		0.08	3.51	23	0.13	19.90	85	12.6
056244		0.09	1.00	43	0.05	15.90	86	6.5



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Project : CANYON GOLD

CERTIFICATE OF ANALYSIS	VA02002491
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Sample Description	Method Analyte Units LOR	ME-MS41 TI ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
056235		0.10	0.29	37	0.10	13.80	71	2.9
056236		0.11	0.47	44	0.09	23.3	75	3.9
056237		0.08	1.56	24	0.19	22.6	61	6.6
056238		0.18	0.47	47	0.13	28.2	90	3.9
056239		0.08	0.21	56	0.23	30.3	100	3.2
056240		0.10	0.21	52	0.31	30.1	87	3.0
056241		0.11	0.21	50	0.28	28.5	84	3.3
056242		0.09	0.29	46	0.30	26.2	92	3.2
056243		0.08	3.51	23	0.13	19.90	85	12.6
056244		0.09	1.00	43	0.05	15.90	86	6.5

5
7



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CERTIFICATE OF ANALYSIS	VA02002491
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		ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
Sample Description	Method Analyte Units LOR	Ti ppm 0.02	U ppm 0.05	V ppm 1	W ppm 0.05	Y ppm 0.05	Zn ppm 2	Zr ppm 0.5
056235		0.10	0.29	37	0.10	13.80	71	2.9
056236		0.11	0.47	44	0.09	23.3	75	3.9
056237		0.08	1.56	24	0.19	22.6	61	6.6
056238		0.18	0.47	47	0.13	28.2	90	3.9
056239		0.08	0.21	56	0.23	30.3	100	3.2
056240		0.10	0.21	52	0.31	30.1	87	3.0
056241		0.11	0.21	50	0.28	28.5	84	3.3
056242		0.09	0.29	46	0.30	26.2	92	3.2
056243		0.08	3.51	23	0.13	19.90	85	12.6
056244		0.09	1.00	43	0.05	15.90	86	6.5

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7



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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Tl	U	V	W	Y	Zn	Zr
		ppm 0.02	ppm 0.05	ppm 1	ppm 0.05	ppm 0.05	ppm 2	ppm 0.5
056235		0.10	0.29	37	0.10	13.80	71	2.9
056236		0.11	0.47	44	0.09	23.3	75	3.9
056237		0.08	1.56	24	0.19	22.6	61	6.6
056238		0.18	0.47	47	0.13	28.2	90	3.9
056239		0.08	0.21	56	0.23	30.3	100	3.2
056240		0.10	0.21	52	0.31	30.1	87	3.0
056241		0.11	0.21	50	0.28	28.5	84	3.3
056242		0.09	0.29	46	0.30	26.2	92	3.2
056243		0.08	3.51	23	0.13	19.90	85	12.6
056244		0.09	1.00	43	0.05	15.90	86	6.5

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Sample Description	Method Analyte Units LOR	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
		Tl	U	V	W	Y	Zn	Zr
		ppm 0.02	ppm 0.05	ppm 1	ppm 0.05	ppm 0.05	ppm 2	ppm 0.5
056235		0.10	0.29	37	0.10	13.80	71	2.9
056236		0.11	0.47	44	0.09	23.3	75	3.9
056237		0.08	1.56	24	0.19	22.6	61	6.6
056238		0.18	0.47	47	0.13	28.2	90	3.9
056239		0.08	0.21	56	0.23	30.3	100	3.2
056240		0.10	0.21	52	0.31	30.1	87	3.0
056241		0.11	0.21	50	0.28	28.5	84	3.3
056242		0.09	0.29	46	0.30	26.2	92	3.2
056243		0.08	3.51	23	0.13	19.90	85	12.6
056244		0.09	1.00	43	0.05	15.90	86	6.5

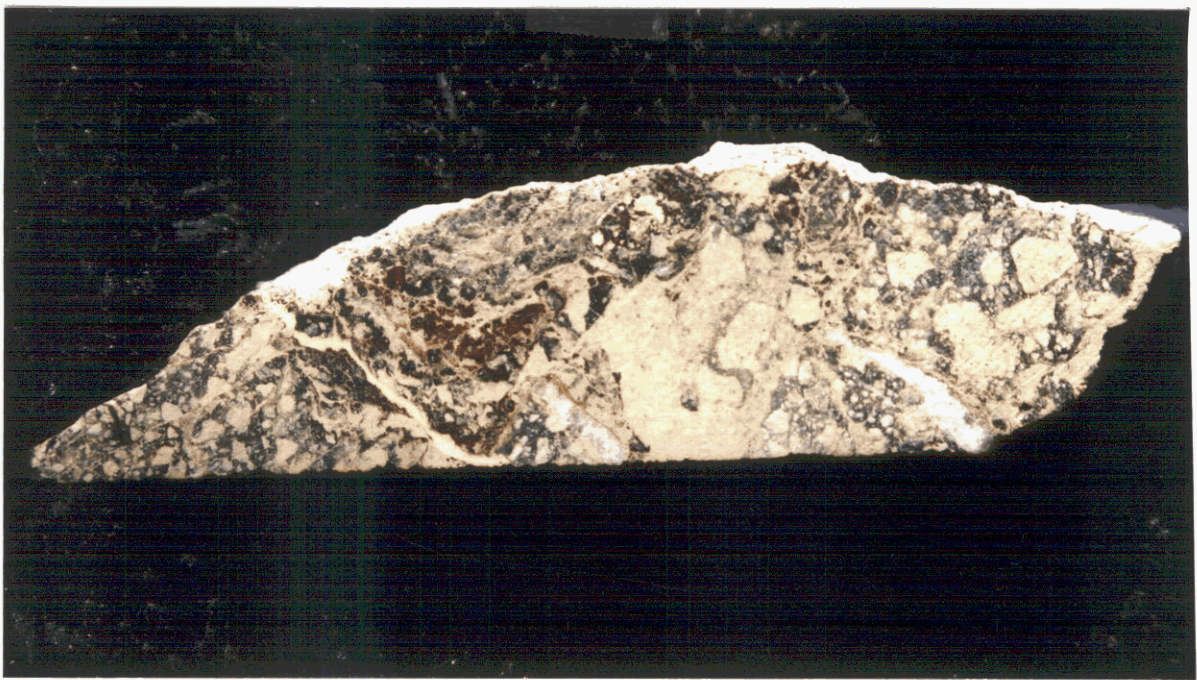
5
7

PLATES

D.D.H. CGGC - 5 PHOTOS

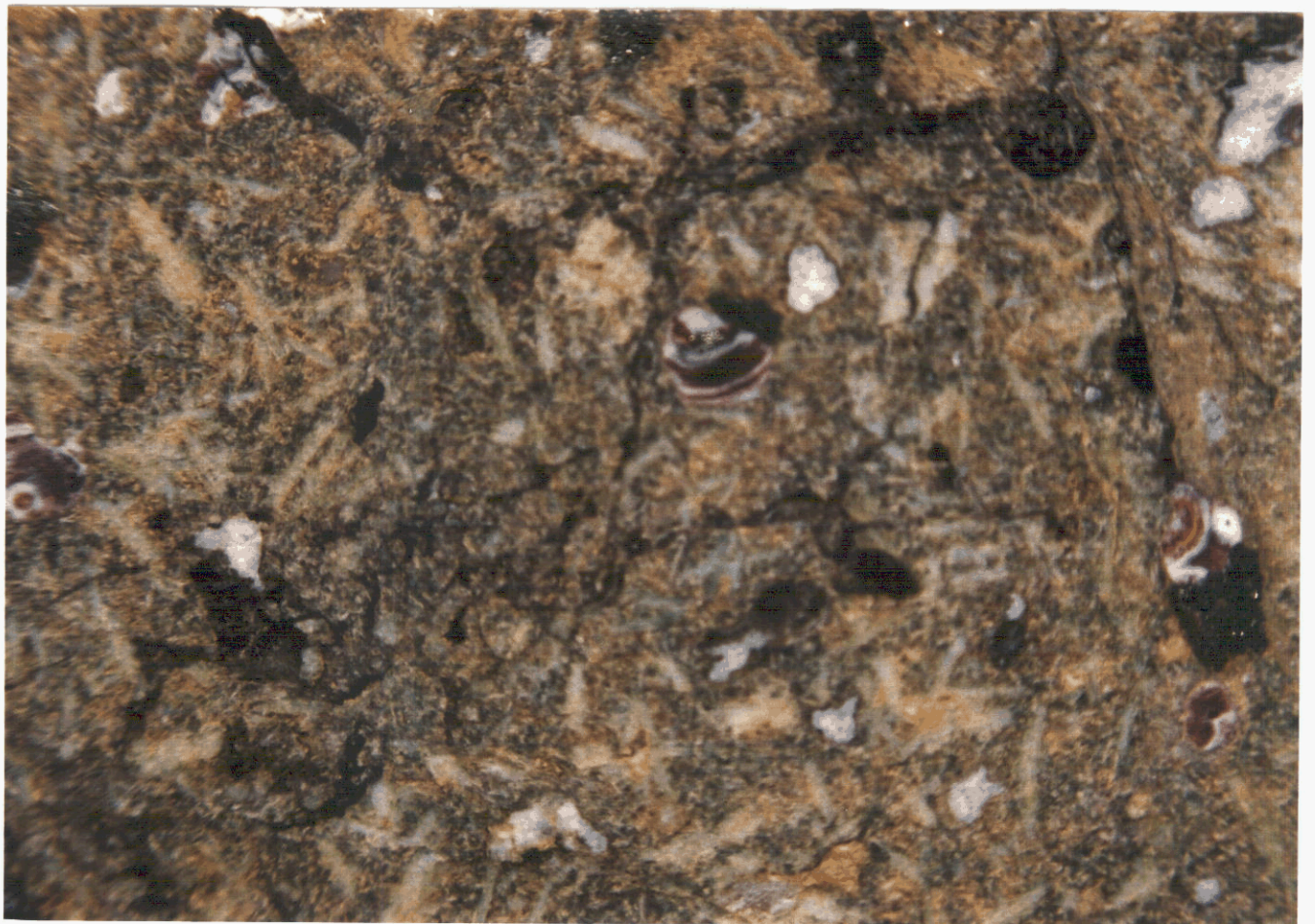


DRILL HOLE CGGC-5: 169 to 246.5 FT.



CGGC-5 at 220ft. HYDROTHERMAL BRECCIA - HEMATITE - PYRITE

X1.5



CGGC-5-193.5 to 196 ft./ BANDED HEMATITE QTZ. to WHITE QTZ. (FRAGMENTS)?

X3.6

APPENDIX 5

SUMMARY OF FIELD EXPENDITURES

2002 DIAMOND DRILLING

PROGRAM

CANYON CLAIMS

Summary of Expenditures/Work Performed

Diamond Drilling and related costs

▪ Drill rental (rated at 10% of value of equipment/month) \$45,000.00 x 3.5 months= \$15,750.00 x75%	\$11,812.50
▪ Drilling fluids	\$ 1,635.00
▪ Core boxes	\$ 900.00
▪ Diamond products	\$ 3,008.40
▪ Drill supplies other than diamond products	\$ 2,505.77
▪ Fuel	\$ 2,407.65
▪ Truck rental (3 ½ months at \$1,450.00/month x 25%	\$ 1,268.75
▪ Truck costs: Whitehorse – return & work (3200 km x.42)	\$ 1,344.00
▪ Assays	\$ 3,861.78
▪ Living expenses: \$35.00 x 220 man days	\$ 7,700.00
▪ Salaries: (Luke) 47 days x \$150.00	\$ 7,050.00
(Shane) 68 days x \$150.00	\$ 10,200.00
▪ Report and drafting	<u>\$ 500.00</u>

GRAND TOTAL FOR SUMMER 2002

\$54,193.85

Indian and Northern Affairs Canada
Altares Indiennes et du Nord Canada



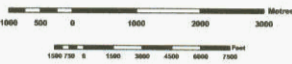
WHITEHORSE MINING DISTRICT

- Place Boundary
- Active Mineral Claims
- Expired Mineral Claims
- Direction of Staking
- GPS Located Claim Post
- Deeded Parcel
- First Nation Land
- Agricultural Parcel
- Yukon Land Parcel
- Federal Land Parcel
- Area Withheld from Staking
- Play Consent Center

Contour Interval = 100 Feet
UTM Zone 8 - NAD 83

105 K/02

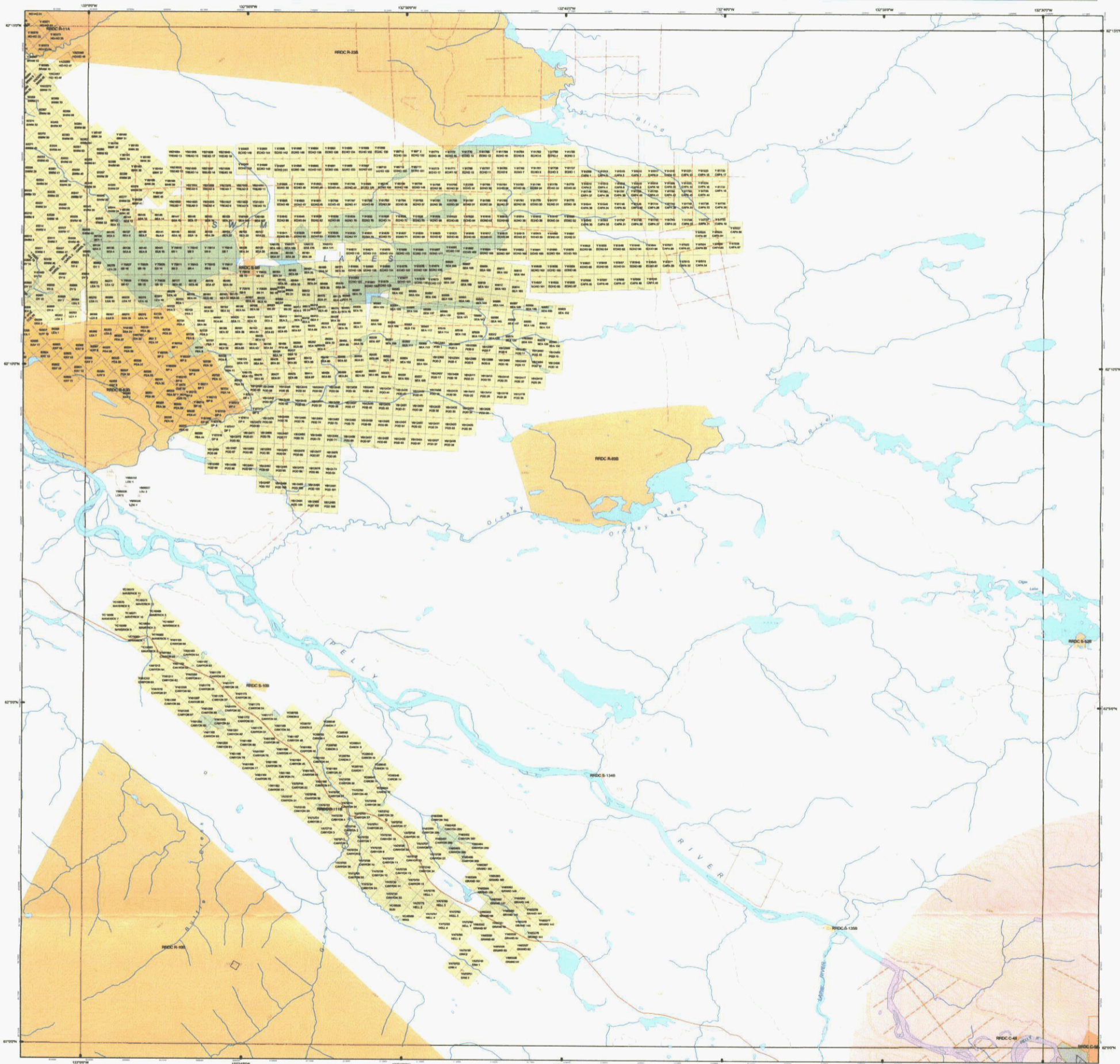
LATITUDE 62°00' TO 62°15'
LONGITUDE 132°30' TO 133°00'



FEBRUARY 20, 2003

NOTICE: THIS MAP IS ISSUED AS A PRELIMINARY GUIDE FOR INFORMATION ONLY. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ANY INFORMATION AND FOR OBTAINING NECESSARY PERMITS AND CONSENTS FROM THE APPROPRIATE AUTHORITIES. THE USER SHALL ACCEPT RESPONSIBILITY FOR ANY ERRORS, OMISSIONS OR DELAYS IN THE INFORMATION PROVIDED. THE USER SHALL NOT BE HELD RESPONSIBLE FOR ANY DAMAGES, LOSSES OR INJURIES ARISING FROM THE USE OF THIS MAP. THE USER SHALL NOT BE HELD RESPONSIBLE FOR ANY CLAIMS OR DAMAGES ARISING FROM THE USE OF THIS MAP. THE USER SHALL NOT BE HELD RESPONSIBLE FOR ANY CLAIMS OR DAMAGES ARISING FROM THE USE OF THIS MAP.

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