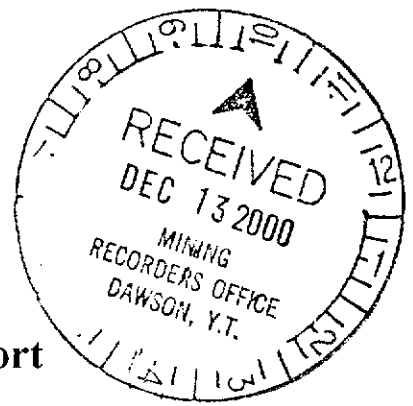


094132



**Geochemical and Prospecting Report
on the
NINA 1-74 Claims
Dawson Mining District**

by

J. Peter Ross, Prospector

NTS: 115 O 6/7
Latitude: 63° 25' N
Longitude: 139° 02' W
Dates Worked: Aug. 14, 21, 23, 24, 26, 29 / 1999
Sept. 1, 6, 12-18, 20-22, 29 / 1999

Dated: December 2000

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 \$ 7400.00.

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

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Chapter One: SUMMARY and RECOMMENDATIONS

1.1 Summary

The NINA 1-74 claims were staked in July 1999 by Hans Algottson of Dawson City, Yukon and Peter Ross. Hans Algottson claims were transferred to J. Peter Ross of Whitehorse, Yukon.

The Maisy May - Henderson Creek area (NINA claim group), map sheet 115 O 6/7, was chosen because;

- 1) There is road access to the area.
- 2) Henderson Creek and Maisy May Creek have produced >94,867 oz. placer gold (recorded to 1997).
- 3) The source of gold seemed to be the headwaters of both streams - which is a common area to both.
- 4) The common area had 4 interesting plug-like intrusion with faults trending northwest to southeast.
- 5) The area has had almost no exploration for gold lode sources.
- 6) Recent success in Alaska - Pogo, Fort Knox and True North gold deposits, and the information from the 1998 Yukon Geoscience Forum short course on Alaskan Gold Deposits.
- 7) Published data on placer gold in both creeks says placer gold at the headwaters is coarser and less pure. As one goes downstream, the gold becomes finer, has less quartz attached and is more pure.

On the first trip, while staking the claims (June 29-31 and July 1-9, 13), J.P. Ross took many float samples. Twenty-five (25) were tested by Daltango Resources, Au (30g) 36 element ICP ultratrace, for a "right of first refusal" on the claims. The best float sample was a disappointing 60.8 ppb Au.

On the second trip (August 14, 18-31, Sept. 1-22, 29) work was done on and off the claims. Forty (40) float samples and 4 bedrock samples were taken and tested for Au (30g) fire assay. At 46 sites silt samples were taken and tested for (-80+200 mesh) Au (30g) fire assay and (-200 mesh) Au (30g) fire assay. At each site a pan concentrate sample was taken from -8 mesh material, panned down to about 1 lb. and tested for Au (30g) fire assay.

Samples from the second trip were not assayed by ICP as I was short of funds.

Copper Ridge has since re-tested my silt samples (-80+200 mesh) and pan concentrate samples for Au (30g) 36 element ICP ultratrace. The -200 mesh Au was not re-assayed.

The float and bedrock sample results from the second trip returned low values for gold.

The silt and pan concentrate samples were encouraging but hard to evaluate.

- Au (-200 mesh); 18 were 25 ppb or better up to 129 ppb.
- Au (-80+200 mesh); 6 were 25 ppb or better up to 643 ppb.
- Au pan concentrate; 22 were 25 ppb or better up to 3099 ppb.

Testing by Copper Ridge confirmed my values somewhat; but could not produce any gold indicator elements.

Results suggest the placer gold has many sources; some not on the NINA 1-74 claims.

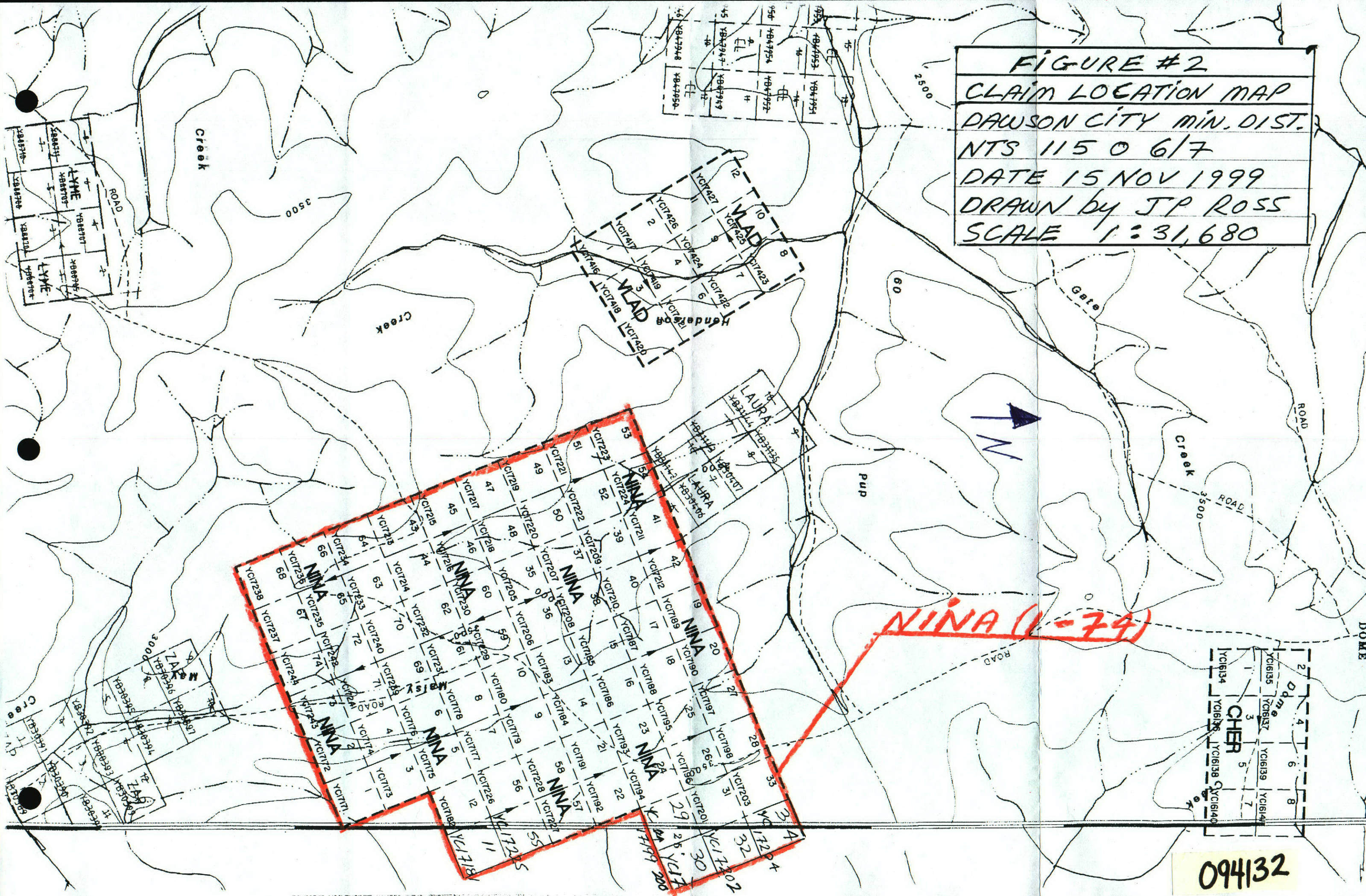
Nevertheless , Copper Ridge optioned the NINA 1-74 claims.

Dates worked in 1999 were Aug. 14, 21, 23, 24, 26, 29 and Sept. 1, 6, 12-18, 20-22, 29
Travel days were August 14, 21 and Sept. 22, 29


1.2 Recommendations

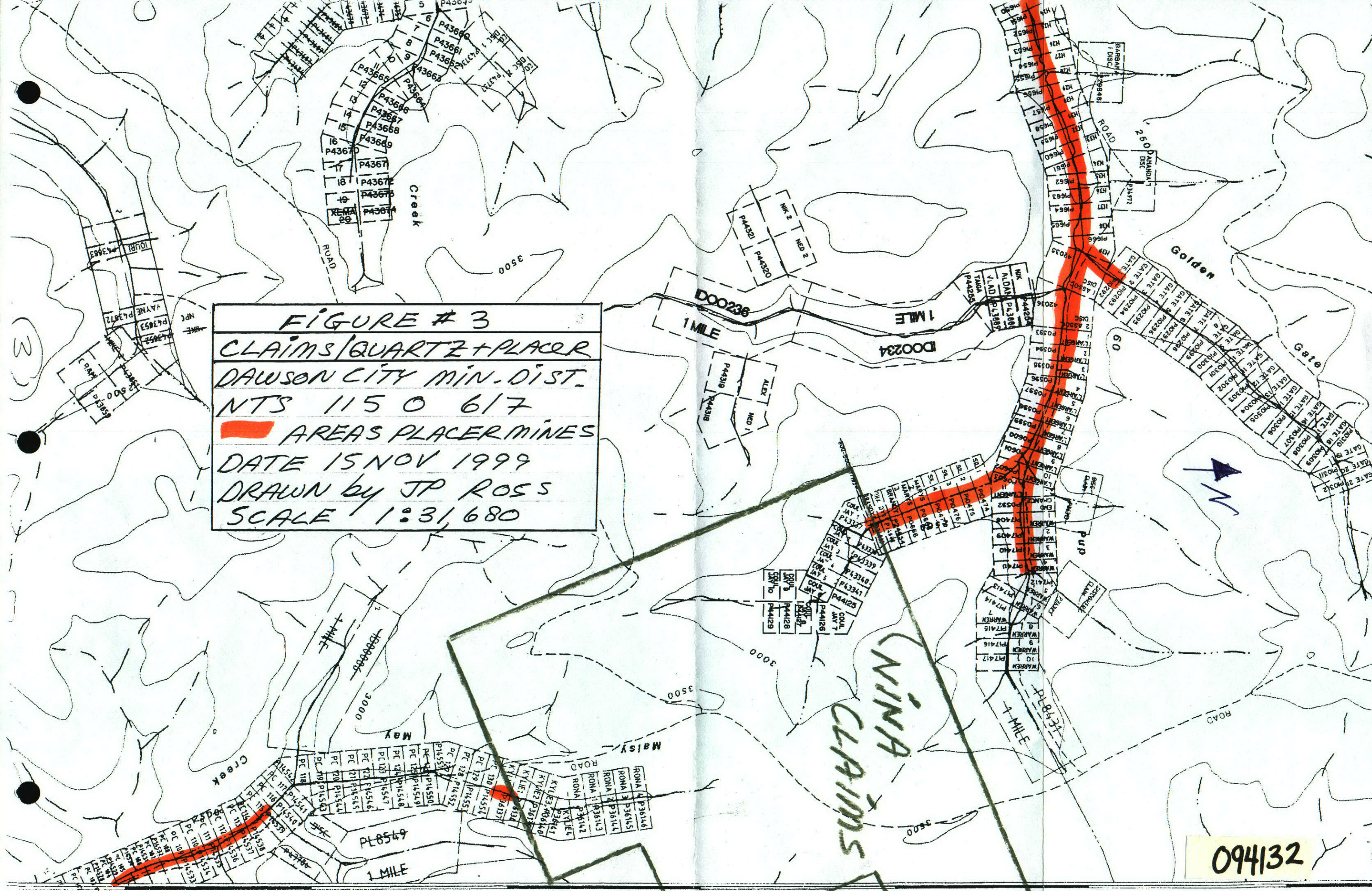
None. Copper Ridge has the option and they will explore the claims.

FIGURE #2
CLAIM LOCATION MAP
DAWSON CITY MIN. DIST.
NTS 115 0 6/7
DATE 15 NOV 1999
DRAWN by JP ROSS
SCALE 1:31,680



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FIGURE # 3
CLAIMS/QUARTZ+PLACER
DAWSON CITY MIN. DIST.
NTS 115 0 617
 **AREAS PLACER MINES**
DATE 15 NOV 1999
DRAWN by JP ROSS
SCALE 1:31,680

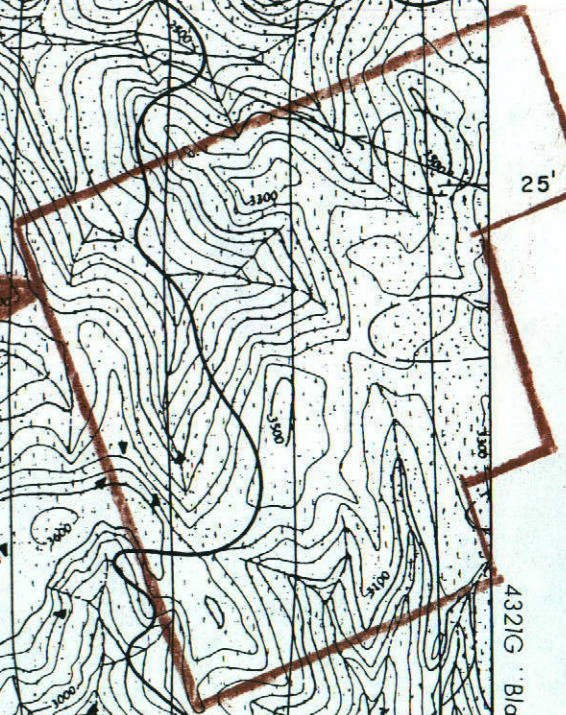


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FIGURE # 4
CLAIMS/MAGNETIC DATA
GEOPHYSICS PAPER 4307
NTS 115 0 617
DATE 15 NOV 1999
DRAWN by JP ROSS
SCALE 1:63,360

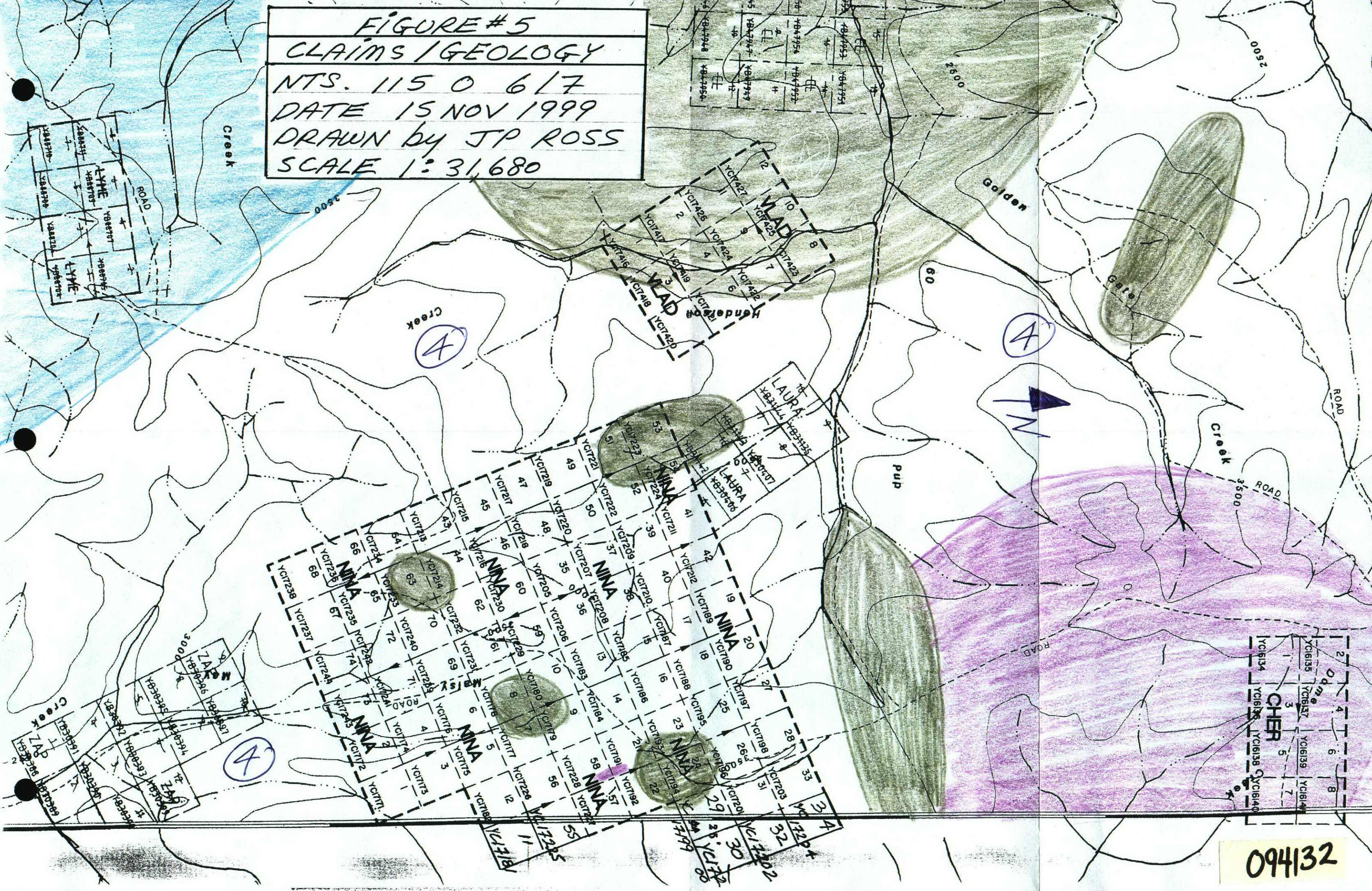


NINA
CLAIMS



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FIGURE #5
CLAIMS / GEOLOGY
 NTS. 115 0 617
 DATE 15 NOV 1999
 DRAWN by JP ROSS
 SCALE 1:31,680



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GEOLOGICAL LEGEND

- 4 CPSN 35 Carboniferous and Permian
Schist, gneiss, includes Big Salmon Metamorphic Complex

- 7 PGDN 09 Paleozoic Undivided
Pelly Gneiss: foliated to gneissic granodiorite
*age may be Cretaceous (C. Hart, Yukon Geology Program)

- 11 PC 09 Limestone

- 22 PC 09 Oligocene and Miocene
Carmacks Group: andesite, basalt, breccia

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
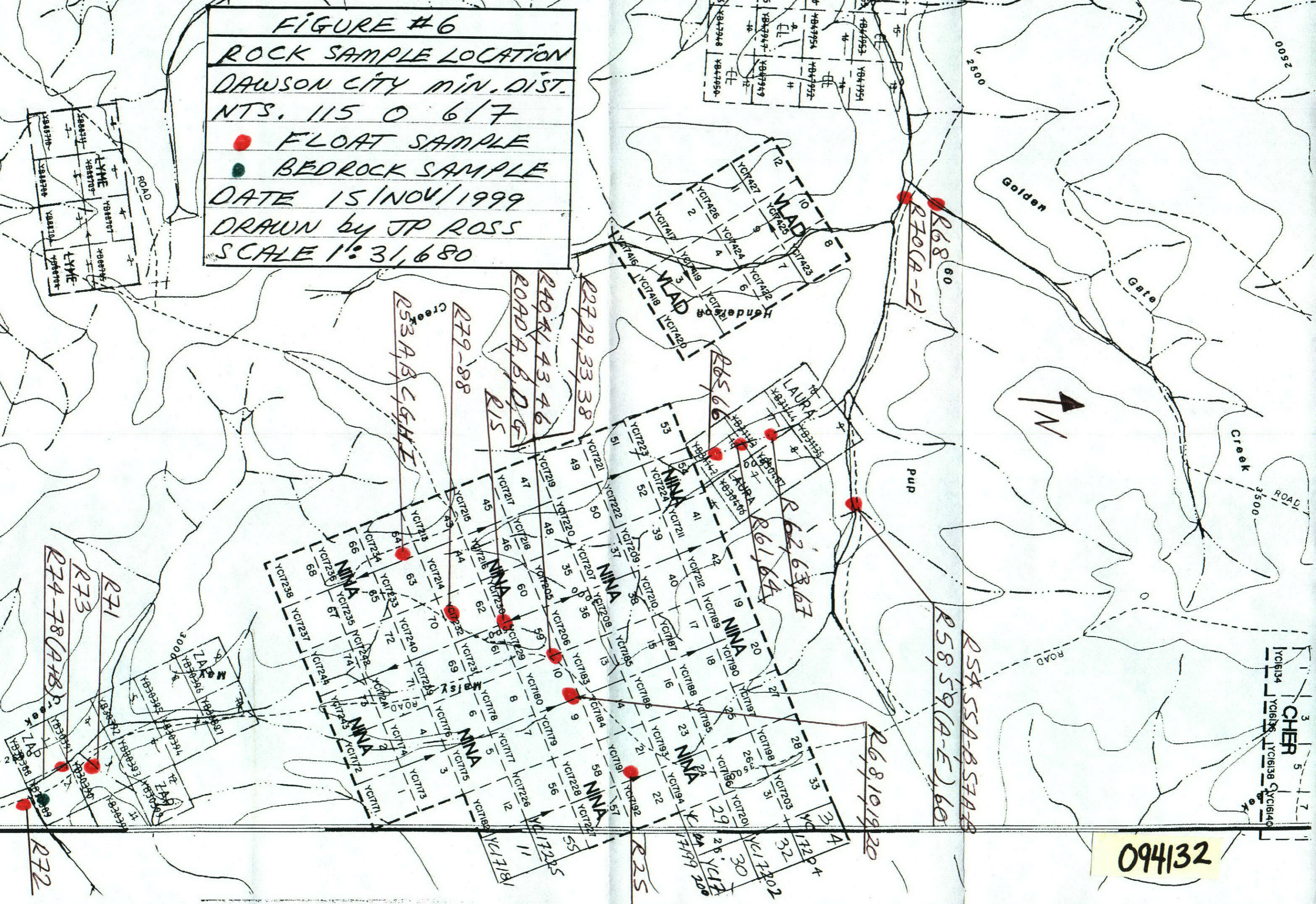
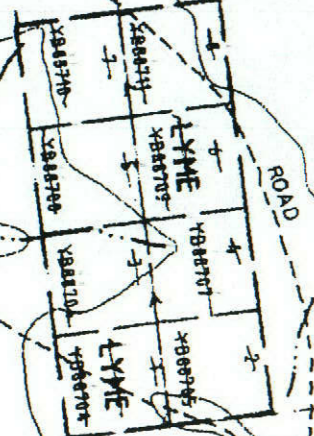
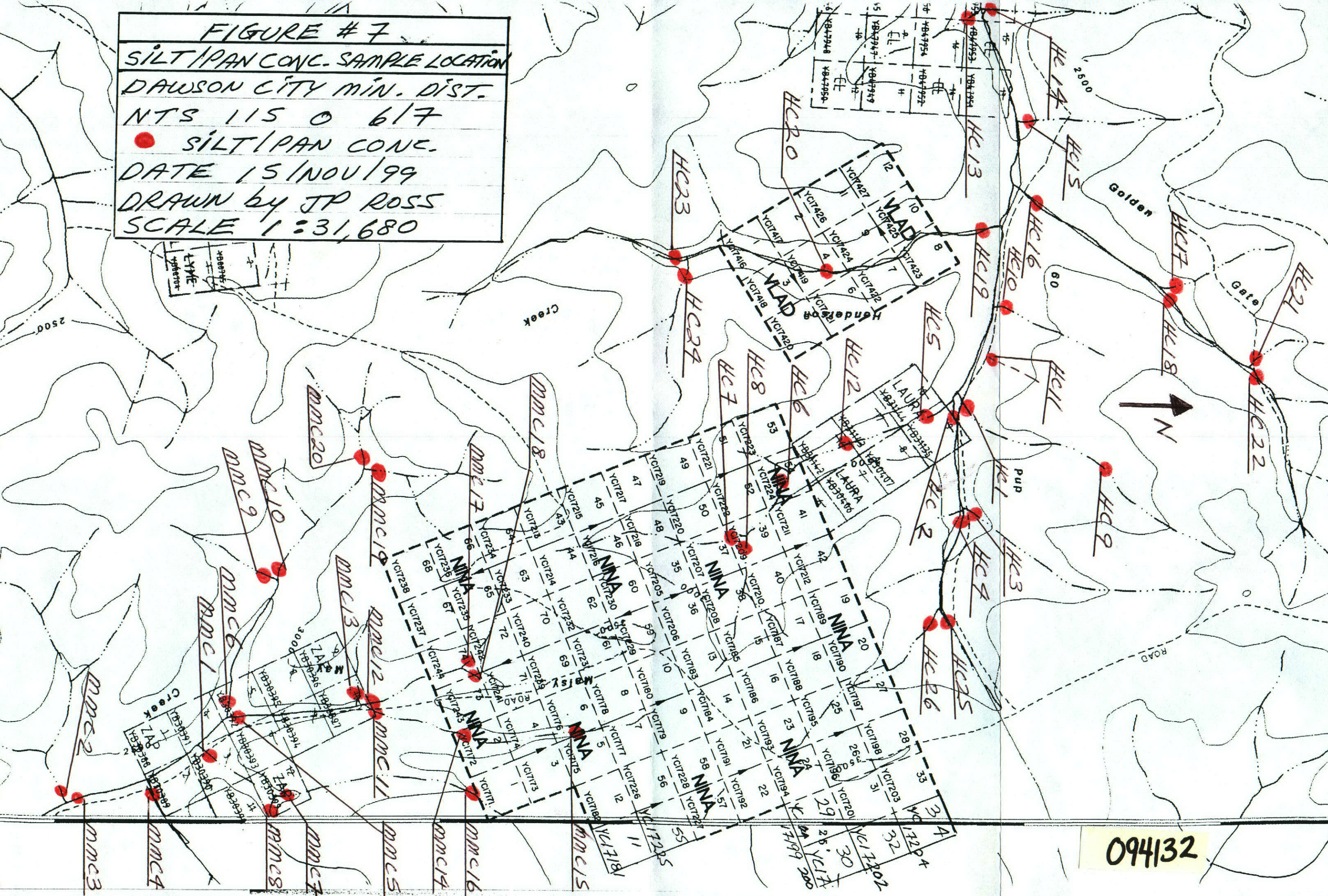
Summary of Work - Henderson Creek Area		
GEOLOGICAL LEGEND from Open File 1364		
<i>J.P. Ross</i>		
SCALE:	FILE: ERNI	DATE: 99.22.29
NTS: 115 O 6/7	DRAWN: 	FIGURE 5a

FIGURE #6
ROCK SAMPLE LOCATION
DAWSON CITY MIN. DIST.
NTS. 115 0 617
FLOAT SAMPLE
BEDROCK SAMPLE
DATE 15/NOV/1999
DRAWN by JP ROSS
SCALE 1:31,680



094132

FIGURE # 7
 SILT/PAN CONC. SAMPLE LOCATION
 DAWSON CITY MIN. DIST.
 NTS 115 0 617
 ● SILT/PAN CONC.
 DATE 15/NOV/99
 DRAWN by JP ROSS
 SCALE 1:31,680



094132

Chapter Two: INTRODUCTION

2.1 Introductory Statement

On the first trip, while staking claims, J.P. Ross and Hans Algottson took many float samples. Twenty-five (25) were tested by Daltango Resources, Au (30g) 36 element ICP ultratrace.

On the second trip J.P. Ross took 40 float samples and 4 bedrock samples which were tested for Au (30g) fire assay. Also on the second trip J.P. Ross took silt samples at 46 sites. The silt samples were tested for (-80+200 mesh) Au (30g) fire assay and (-200 mesh) Au (30g) fire assay. At each site a pan concentrate sample was taken from -8 mesh material, panned down to about 1 lb. and tested for Au (30g) fire assay.

No 30 element ICP was done on the second trip because of lack of funds.

The silt samples were from active sediments and moss mats. Two soil sample bags were filled with -20 mesh material.

For pan concentrates a 10 litre plastic pail was filled with active stream sediments and passed through an 8 mesh screen into a large gold pan and panned down to about 1 lb. The sample was completely pulverized at the lab before testing.

Float and bedrock sample locations were marked by orange ribbon, silt and pan concentrate by yellow and red ribbon.

Copper Ridge optioned the NINA 1-74 claims and had the silt (-80+200) and pan concentrate samples tested for Au (30g) 36 element ICP ultratrace.

2.2 Location and Access

Access was by truck about 50 miles (80 km) south of Dawson City on a rough mining road. The mining road is 2-wheel drive when dry and 4-wheel drive when wet. When wet it can be dangerous in steeper areas!

2.3 History

Geology in the claims area.

Carboniferous and Permian

4 CPSN 35 Schist, gneiss, includes Big Salmon Metamorphic complex.

Paleozoic or ? Cretaceous*

7 PGDN 09 Pelly gneiss: foliated to gneissic granodiorite
* age may be Cretaceous (C. Hart, Yukon Geology Program)

Paleozoic

11 PC 09 Limestone

Oligocene and Miocene

22 OMCV 61 Carmacks Group: andesite, basalt, breccia

Placer mining has taken place; >94,867 oz. gold has been recorded as mined to 1997.

One Minfile reference is present, PILOT - 115 O 111

Chapter Three: PROPERTY DESCRIPTION

Claim Name	Grant No.	Grouping	Date Staked	Date Recorded	Expiry Date
NINA 1	YC17171	Not issued	1999.07.01	1999.07.12	2001.07.12
NINA 2	YC17172	Not issued	1999.07.01	1999.07.12	2001.07.12
NINA 3	YC17173	Not issued	1999.07.02	1999.07.12	2001.07.12
NINA 4	YC17174	Not issued	1999.07.02	1999.07.12	2001.07.12
NINA 5	YC17175	Not issued	1999.07.02	1999.07.12	2001.07.12
NINA 6	YC17176	Not issued	1999.07.02	1999.07.12	2001.07.12
NINA 7	YC17177	Not issued	1999.07.03	1999.07.12	2001.07.12
NINA 8	YC17178	Not issued	1999.07.03	1999.07.12	2001.07.12
NINA 9	YC17179	Not issued	1999.07.03	1999.07.12	2001.07.12
NINA 10	YC17180	Not issued	1999.07.03	1999.07.12	2001.07.12
NINA 11	YC17181	Not issued	1999.07.04	1999.07.12	2001.07.12
NINA 12	YC17182	Not issued	1999.07.04	1999.07.12	2001.07.12
NINA 13	YC17183	Not issued	1999.07.01	1999.07.12	2001.07.12
NINA 14	YC17184	Not issued	1999.07.01	1999.07.12	2001.07.12
NINA 15	YC17185	Not issued	1999.07.01	1999.07.12	2001.07.12
NINA 16	YC17186	Not issued	1999.07.01	1999.07.12	2001.07.12
NINA 17	YC17187	Not issued	1999.07.01	1999.07.12	2001.07.12
NINA 18	YC17188	Not issued	1999.07.01	1999.07.12	2001.07.12
NINA 19	YC17189	Not issued	1999.07.01	1999.07.12	2001.07.12
NINA 20	YC17190	Not issued	1999.07.01	1999.07.12	2001.07.12
NINA 21	YC17191	Not issued	1999.07.02	1999.07.12	2001.07.12
NINA 22	YC17192	Not issued	1999.07.02	1999.07.12	2001.07.12
NINA 23	YC17193	Not issued	1999.07.02	1999.07.12	2001.07.12
NINA 24	YC17194	Not issued	1999.07.02	1999.07.12	2001.07.12
NINA 25	YC17195	Not issued	1999.07.02	1999.07.12	2001.07.12
NINA 26	YC17196	Not issued	1999.07.02	1999.07.12	2001.07.12
NINA 27	YC17197	Not issued	1999.07.02	1999.07.12	2001.07.12
NINA 28	YC17198	Not issued	1999.07.02	1999.07.12	2001.07.12
NINA 29	YC17199	Not issued	1999.07.03	1999.07.12	2001.07.12
NINA 30	YC17200	Not issued	1999.07.03	1999.07.12	2001.07.12
NINA 31	YC17201	Not issued	1999.07.03	1999.07.12	2001.07.12
NINA 32	YC17202	Not issued	1999.07.03	1999.07.12	2001.07.12
NINA 33	YC17203	Not issued	1999.07.04	1999.07.12	2001.07.12
NINA 34	YC17204	Not issued	1999.07.04	1999.07.12	2001.07.12
NINA 35	YC17205	Not issued	1999.07.04	1999.07.12	2001.07.12
NINA 36	YC17206	Not issued	1999.07.04	1999.07.12	2001.07.12
NINA 37	YC17207	Not issued	1999.07.04	1999.07.12	2001.07.12
NINA 38	YC17208	Not issued	1999.07.04	1999.07.12	2001.07.12
NINA 39	YC17209	Not issued	1999.07.06	1999.07.12	2001.07.12
NINA 40	YC17210	Not issued	1999.07.06	1999.07.12	2001.07.12
NINA 41	YC17211	Not issued	1999.07.06	1999.07.12	2001.07.12
NINA 42	YC17212	Not issued	1999.07.06	1999.07.12	2001.07.12
NINA 43	YC17213	Not issued	1999.07.07	1999.07.12	2001.07.12
NINA 44	YC17214	Not issued	1999.07.07	1999.07.12	2001.07.12
NINA 45	YC17215	Not issued	1999.07.07	1999.07.12	2001.07.12
NINA 46	YC17216	Not issued	1999.07.07	1999.07.12	2001.07.12
NINA 47	YC17217	Not issued	1999.07.07	1999.07.12	2001.07.12
NINA 48	YC17218	Not issued	1999.07.07	1999.07.12	2001.07.12
NINA 49	YC17219	Not issued	1999.07.08	1999.07.12	2001.07.12
NINA 50	YC17220	Not issued	1999.07.08	1999.07.12	2001.07.12
NINA 51	YC17221	Not issued	1999.07.08	1999.07.12	2001.07.12

Chapter Three: PROPERTY DESCRIPTION

<u>Claim Name</u>	<u>Grant No.</u>	<u>Grouping</u>	<u>Date Staked</u>	<u>Date Recorded</u>	<u>Expiry Date</u>
NINA 52	YC17222	Not issued	1999.07.08	1999.07.12	2001.07.12
NINA 53	YC17223	Not issued	1999.07.08	1999.07.12	2001.07.12
NINA 54	YC17224	Not issued	1999.07.08	1999.07.12	2001.07.12
NINA 55	YC17225	Not issued	1999.07.05	1999.07.12	2001.07.12
NINA 56	YC17226	Not issued	1999.07.05	1999.07.12	2001.07.12
NINA 57	YC17227	Not issued	1999.07.05	1999.07.12	2001.07.12
NINA 58	YC17228	Not issued	1999.07.05	1999.07.12	2001.07.12
NINA 59	YC17229	Not issued	1999.07.06	1999.07.12	2001.07.12
NINA 60	YC17230	Not issued	1999.07.06	1999.07.12	2001.07.12
NINA 61	YC17231	Not issued	1999.07.06	1999.07.12	2001.07.12
NINA 62	YC17232	Not issued	1999.07.06	1999.07.12	2001.07.12
NINA 63	YC17233	Not issued	1999.07.07	1999.07.12	2001.07.12
NINA 64	YC17234	Not issued	1999.07.07	1999.07.12	2001.07.12
NINA 65	YC17235	Not issued	1999.07.07	1999.07.12	2001.07.12
NINA 66	YC17236	Not issued	1999.07.07	1999.07.12	2001.07.12
NINA 67	YC17237	Not issued	1999.07.07	1999.07.12	2001.07.12
NINA 68	YC17238	Not issued	1999.07.07	1999.07.12	2001.07.12
NINA 69	YC17239	Not issued	1999.07.09	1999.07.12	2001.07.12
NINA 70	YC17240	Not issued	1999.07.09	1999.07.12	2001.07.12
NINA 71	YC17241	Not issued	1999.07.09	1999.07.12	2001.07.12
NINA 72	YC17242	Not issued	1999.07.09	1999.07.12	2001.07.12
NINA 73	YC17243	Not issued	1999.07.09	1999.07.12	2001.07.12
NINA 74	YC17244	Not issued	1999.07.09	1999.07.12	2001.07.12

Chapter Four: GEOCHEMICAL SURVEY

4.1 Soil Sample Geochemistry

No soils samples were taken

4.2 Rock Sample Geochemistry

Float samples ran up to 65 ppb Au and bedrock samples up to 11 ppb Au.

4.3 Silt Sample Geochemistry

Silt samples were hit and miss. (-80+200 mesh) 6 samples assayed 25 ppb Au or better up to 643 ppb Au. (-200) mesh) 18 were 25 ppb Au or better up to 129 ppb Au.

The testing by Copper Ridge on the (-80+200 mesh) samples was erratic. Sometimes corroborating my results, sometimes not. This testing turned up a few new gold anomalies.

4.4 Pan Concentrate Geochemistry

The pan concentrate results were also erratic, 25 were 25 ppb Au or better up to 3,099 ppb Au. Again the testing by Copper Ridge was erratic.

4.5 Interpretation

Float samples ran up to 65 ppb Au and bedrock samples up to 11 ppb Au.

I talked to placer miners from both areas, three on Henderson Creek and one from Maisy May Creek (not active in 1999). All were easy to take to and they gave me a lot of data on the area. The Maisy May miner gave me a little gold for study.

Bedrock is smooth in many places. On the flats areas; about 100 foot drop per kilometer; placer mining occurs in this section and can be profitable. When the grade of the bedrock is steeper, the placer miners find spotty coarse gold and the operation is not profitable. Both Maisy May and Henderson Creek are said to be economical down to the Stewart River and Yukon River. The gold is finer as one goes down to the mouth.

To analyze this area one must use placer data, steepness of the creeks and silt and pan concentrate samples together. I have separated the silt and pan concentrate samples into drainages for comparison. Au values are in ppb. The downstream samples are at the top of each table.

A) GOLDEN GATE CREEK

Sample #	Au ppb -200 mesh	Au ppb -80+200	Au ppb pan con.
HC16	54	643	873
HC17	129	30	8
HC18	55	8	454
HC21	14	14	14
HC22	82	10	12

B) VLAD CREEK

Sample #	Au ppb -200	Au ppb -80+200	Au ppb pan con.
HC19	17	12	3099
HC20	20	6	104
HC23	32	9	5
HC24	11	5	68

C) SANDBERG PLACER

Sample #	Au ppb -200	Au ppb -80+200	Au ppb pan con.
HC5	39	7	35
HC12	7	231	42
HC6	25	6	8
HC8	13	-	10
HC7	8	7	25

D) "LITTLE DAVE" PLACER

Sample #	Au ppb -200	Au ppb -80+200	Au ppb pan con.
HC2	36	14	50
HC3	8	5	14
HC4	7	115	21
HC25	34	-	6
HC26	31	-	7

E) MAISY MAY WEST FORK

Sample #	Au ppb -200	Au ppb -80+200	Au ppb pan con.
MMC6	16	20	8
MMC9	30	144	444
MMC10	11	6	-
MMC19	50	8	7
MMC20	77	14	8

F) MAISY MAY EAST FORK

Sample #	Au ppb -200	Au ppb -80+200	Au ppb pan con.
MMC1	14	6	-
MMC8	23	7	-
MMC7	87	5	-
MMC16	10	-	5

G) MAISY MAY MIDDLE FORK

Sample # (east side)	Au ppb -200	Au ppb -80+200	Au ppb pan con.
MMC5	7	-	-
MMC11	69	-	15
MMC14	18	6	-
MMC15	7	-	14
Sample # (west side)	Au ppb -200	Au ppb -80+200	Au ppb pan con.
MMC12	9	-	-
MMC17	27	11	16
MMC18	15	6	-

H)

Sample #	Au ppb -200	Au ppb -80+200	Au ppb pan con.
HC1	8	14	5
HC9	9	148	6
HC3	8	5	14

I)

Sample #	Au ppb -200	Au ppb -80+200	Au ppb pan con.
HC11	6	-	9
HC10	9	-	7

GOLDEN GATE Creek was stripped by Territorial Gold Placers in the 1980's but not mined. Little Dave said that Golden Gate Creek is quite steep and was spotty at the bottom and the placer mine lost money, also he did auger drilling on the creek; a small canyon is present just above HC18. Gold in auger test is present below and not above this canyon. The cucumber-like intrusion and surrounding area is a very good gold target.

VLAD Creek. In 1999 Vladimir Nedechev found a gold placer of 5,000 to 10,000 oz. which was later sold to Lee Olenyk of Whitehorse and Hans Algottson of Dawson City. The stream is not steep, but narrow. It is said to average 2.5g Au / yard³. The source may be the hill which looks like Alfred Hitchcock, just west of the oval intrusion. Gold with quartz was found in pits up to the forks (HC23 / HC24). In the spring claims should be staked to cover Alfred Hitchcock Hill.

SANDBERG Placer. This flat area from HC5 to just below HC6 produced 4,000 oz. in 3,000 feet of creek (personal communication, Shawn Ryan). Below HC6 is a steep area - but from HC6 up to HC8, HC7 is a flat area. In this area was seen 5-6 old test pits at HC6 and others up to the forks. This is probably another economic placer.

"LITTLE DAVE" Placer. This area was steep and Little Dave lost money here - gold was coarse and spotty. The bedrock was steeper than Sandberg's placer area. The gold from here may not come from my claims.

MAISY MAY West Fork. No placer mining has occurred here, there are a few test pits and no valid placer claims. MMC9 is on a fault? and should be followed up. MMC2 had a pan concentrate 108 ppb Au. MMC19 and MMC20 had high -200 mesh Au. A limestone unit is to the southwest of MMC20, MMC9, MMC2 and high -200 mesh gold suggests that a Carlin type gold deposit may be present. This area should be sampled at a close density and also Tenderfoot Creek and Moosehorn Creek should be done as well.

MAISY MAY East Fork. No placer mining has occurred here, no test pits were seen and there are no valid placer claims. MMC7 had a high -200 mesh Au result.

MAISY MAY Middle Fork - east side. Only one good silt sample MMC11 from just below my gold sample, which came from a narrow area of steep bedrock. This area was placer mined, the gold was coarse and the operation uneconomic. Above the mined area is a 700 foot long wide meadow which was tested by auger drilling and stripped, it has not been mined yet. Good gold values were found in the testing and the area will be a good placer mine. This area is almost touching my claim NINA 73 and NINA 2, but the silts were poor. This area has very low relief.

MAISY MAY Middle Fork - west side. MMC17 has a -200 mesh Au - 27 ppb and drains a small plug. Placer miners tested at MMC12. There was 20 feet of mud, almost no gravel, and no Au in pans.

Only one hit at HC9. The streams are quite steep and there are no valid placer claims.

Nothing of note. The streams are short and there is little water.

The saddles in ridges have a lot of wind blown sand or loess. This means -80+200 mesh and -200 mesh gold tests will be diluted. The gold is quite coarse in appearance in the upper ends of the creeks.

Ken Galambos, YMIP geologist, thinks a northwest to southeast trend of mineralization may be present. Bounded on the southwest by a granodiorite batholith and on the northeast by a zone causing a magnetic high. The intrusions are coming up into this area (a zone of weakness).

The erratic nature of the gold, plus the fact the placer mines were not high grade suggest many gold vein systems are possible or perhaps large disseminated gold systems (Taule - RP geologist - Philippines has many gold placers of this type).

No indicator elements for gold were seen in silts or pan concentrates. Perhaps the indicator elements are very low in a "leached" unglaciated terrain. Perhaps this is a GOLD deposit system with no indicator elements.

Chapter Five: Prospecting

This area warrants much more prospecting work, more claims should be staked as well. One year of work was done on all the claims. All claims will be kept.

Copper Ridge optioned the claims in December 2000.

I can not make further plans unless Copper Ridge terminates the option agreement and I have seen all of their data.

APPENDIX 1

References

Geophysical paper/map, 4307G, Stewart River, 115 O/6.

Geophysical paper/map, 4321G, Black Hills Creek, 115 O/7.

GSC Open File, 1364. Geochemical silt survey. NTS 115 N(E1/2) 115 O.

Personal Communication

Craig Hart, Yukon Geology Program

John Kowalchuck, NuLite, Kenrich Resources, Vancouver, BC.

Steve Taule, WMC, Manila, Philippines

Ken Galambos, YMIP geologist, Yukon Geology Program

Shawn Ryan, prospector, Dawson City

Rich Fitch, placer miner on Maisy May Creek (gave me gold sample to study)

Bruce Cowan and son, placer miner on Henderson Creek

"Little Dave", placer miner on Henderson Creek

Vladimir Nedechev, placer miner on Henderson Creek

Intrusion Related Gold Mineralization - Alaska and Yukon. 1998 Yukon Geoscience Forum Workshop.

Government Publications

GSC Memoir 284, Bostock

GSC paper 63-36

GSC paper 65-19

Yukon Mineral Industry 1941-1959, Ruth Debicki

Yukon Placer Industry Report - 1978-1982, 1983-1984, 1985-1988, 1989-1990, 1991-1992, 1993-1994, 1995-1997

Yukon MINFILE, 115 O 111 (PILOT)

(1A)

HENDERSON
MAISY MAY CR

DATA ON PLACER GOLD IN AREA

① GSC. MEM 284 - Henderson Creek gold BOSTOCK is finer than Thistle Cr + is not concentrated near bedrock, as in case of that creek, but extends (like Bonanza Cr) upwards into gravels for several feet.

② GSC. PAPER 63-36 1963 BURIAN'S started to mine just above GOLDEN GATE CR ON HENDERSON. MINED 10 (feet) of gravel under 3' mud. Old workings are present.
($63^{\circ}26'N$, $139^{\circ}08'W$)

③ GSC. PAPER 65-19 Henderson Cr had a few hand mining operations until YUKON GOLD PLACERS Ltd had small dredge op. 49-52, 54-56 + produced 26,636 oz. Lower end of workings is 10 miles up from mouth. About 2 miles were dredged.

GOLDEN GATE PLACERS, BURIAN'S.
($63^{\circ}26'N$, $139^{\circ}08'W$) upstream from former dredging operations. 1964

④ YUKON MINERAL INDUSTRY 1941-~~49~~⁵⁹ DEBICKI. Placer production + notes. In period no production from Black Hills or Maisy May Creeks. (Recorded)

(1B)

⑤ YUKON PLACER INDUSTRY
1978-82

① Henderson Cr. TERR. GOLD PLACERS
(63° 23' N, 139° 16' W) 78-81

Mining 2.4 miles up from FORKS dredge
tail and 4-6' mud, 4-6' gravel + then
bedrock is QUARTZ-BIOTITE GNEISS.

* Compared to second operation 5 miles
upstream, gold is 775 fineness + more
pure and finer.

② Henderson Cr. TERR. GOLD PLACERS
(63° 26' N, 139° 10' W) 78-81

Mining 7.4 miles up from forks 3.5
miles from upper limit of dredge.

Receivership in 1982. Stopped operation.

* Here gold = 720 fineness, less pure, more
coarse than downstream operation.

③ Maisy May Creek Maisy May Mine
(63° 19' N, 138° 58' W) 80-82

Mining area is 4-5' mud, 6' gravel.

Gold is distributed full thickness of
gravel and bedrock is blocky weathering
schist.

Gold occurs as tabular grains
which appear worn. Magnetite +

* other heavy minerals are not
abundant. ↑

⑥ YUK. PL. IND.
1983-84

① MAISY MAY CR. MAISY MAY MINES
(63° 20' N, 138° 58' W) 83

Deposit is 12-17' mud, 6' sand + silt,

(10)

6-8' of gravel and bedrock is competent + blocky. Gold is 40% coarse grained and has rough edges.

(B) MAISY/MAY CR. QUEENSTAKE RES
(63°22'N 139°00'W) MAISY/MAY mines
Reserves = 200,000 yards 83-84.

at .01203 Au 1yd³. Gold was 40% coarse grained with rough edges. Several pieces with quartz + black schist embedded in them were found.

(C) HENDERSON CR. SURINAM-SUTHERLAND
(63°26'N, 139°09'W) 83-84 RES.
Deposits 15', 8' mud, 7' brown sandy gravel and extensive hand mining by early miners in area. Gold here is coarse with rough edges. A size gradation is apparent from this site + finer gold downstream.

(D) Hend. Cr. SUR. SUTH. RES.
(63°23'N, 139°16'W) 83-84
2 miles up from FORKS. Gold here is fine grained + 3 different colour varieties occur.

(E) YUK. PL. IND.
1985-88

(A) Hend. Cr. Northway Mining
(63°26'N, 139°08'W) 88
Gold fineness was 750, and was a mixture of medium + coarse-grained gold.

(10)

(B) MAISY MAY CR. Queenstake Res.
(63°22'N, 139°00'W) 88

Deposit = 20' mud (upto) 5-6' gravel.
Sliced bottom 4' gravel and 3' of bed-
rock. Fine grained flat gold was mainly
recovered. Nuggets often had quartz
attached. Fineness was 780.

(8) YUK. PL. IND.
1989-90

(A) MAISY MAY CR. QUEENSTAKE Res.
(63°21'N, 139°00'W) 89
Data same as 88.

(B) HEND. CR. NORTHWAY MIN
(63°26'N, 139°5'W) 89-90 +EXP.

Deposits on 60 PUP. 12' deep. 4-6' of
mud, 2' of sand 4' of gravels. Sliced
all gravels. Gold is primarily fine
grained with some med. mesh size
Fineness is 750.

(C) NORTH HEND. CR. DAVE LAURENSEN
(63°28'N, 139°13'W) 89-90

10 miles up from Fork. ~~1 man op.~~ 1 man
operation. Deposit up to 20'. 10' of mud,
8-10' of gravel. Bedrock decomposed
& clay-like. Gold was chunky with
both rough angular pieces + smooth
pieces with rusty discoloration.
Fineness 720-760.

(D) Maisy May Cr. JASPER EQUIP
(63°19'N, 138°57'W) 890

3 1/2 miles downstream from 89 Queenstake

(1E)

Deposit = 10-12' 4-5' mud 8' gravel
Gold was round + rough with very little
quartz.

⑨ YUK. PL. IND

1991-92

(A) Hend. Cr. NORTHWAY M+E.
(63°22'N, 139°20'W) 91-92

NO DATA

(B) NORTH Hend. Cr. DAVE LAURENSEN
(63°28'N, 139°14'W) 91

Mined bottom 5' gravel + 4' bedrock. Gold
was reddish + brassy colour. Coarse gold
was both angular + rounded. Fineness
was 780.

(C) Maisy May Cr. JASPER EQ.
(63°19'N, 138°57'W) 91-92

Gold was flat and usually had a dull
red stain, fineness was 782.

⑩ YUK. PL. IND.

1993-94

(A) Hend. Cr. CARIBOU MINES
(63°22'N, 139°16'W) 93-94

Gold was mostly bright coloured + range
from med. to fine grained. Smaller
nuggets often has quartz attached.
Fineness 760-780.

(B) Maisy May Cr. Jasper Equip.
(63°19'N, 138°57'W) 93-94

1/3 = upstream where Queenstake
stop

(1F)

stopped. Most gold was flat smooth
and around 16 mesh. Fineness 770-780.

© MAISY MAY CR. VAN EVERY INC
(63°23'N, 139°00'W) 93-94

Testing near leadwater. Gold was
bright, chunky + coarse. Fineness in
770.

⑪ YUK. PL. IND
1995-97

Ⓐ Hend. Cr. Newcan Placers
(63°22'N, 139°19'W) 96/97

1st dredge tail → Golden Gate Pup. →
~~Henderson Cr~~ (just up from Forks) →
test on EMALINE PUP (N Hend Cr) a lot
of moving.

Ⓑ Hend. Cr. Coulee Res.
(63°22'N, 139°14'W) 97.

Moosehorn Cr. tested
no data

Ⓒ Hend. Cr. Shellbrite placers
(63°23'N, 139°15'N) 96/97

gold was bright, typically flat + smooth.
Fineness was 780.

Comparing Henderson Cr + Maisy May
Cr. to other placer areas.

Much less than the Klondike which
has been heavily explored for lode
source, little success.

Less than 60 mile area. + 600,000

onces. Miller Glacier, 60 mile R, Bedrock and Little Gold creeks. Fair amount of exploration for UO₂ source. Not successful. Less than Clear Cr area. 110,000 ounces from 41-59 78-97. Heavily explored for UO₂ sources and reserves are ready to mine under better economic conditions. Some success.

The Eureka Cr - Black Hills area. 78,954 oz. Eureka 41-59 prod not included. Black Hills no prod. in 41-59. Production is from 78-97. Exploration for UO₂ have been low. Not successful.

Henderson Cr - Maisy May area	
Hend Cr. data 41-59 + 78-97	68,888 oz
Maisy May Cr. no prod + 78-97	25,979
in 41-59	94,867 oz.

Exploration for UO₂ has been almost non-existent. And area may be "dome" area of rather small surface area.

all 4 have road access.

MINFILE: 1150 111
PAGE NO: 1 of 1
UPDATED: 03/10/93

**YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE**

NAME(S): Pilot	NTS MAP SHEET: 115 O 7
MINFILE #: 1150 111	LATITUDE: 63°19'57"N
MAJOR COMMODITIES: -	LONGITUDE: 138°58'56"W
MINOR COMMODITIES: -	DEPOSIT TYPE: Unknown
TECTONIC ELEMENT: Yukon Tanana Terrane	STATUS: Uncertain

CLAIMS (PREVIOUS AND CURRENT)

APEX, PILOT, ZAP, LAURA

WORK HISTORY

Staked as Apex & Pilot cl (YA52945) in Aug/80 by Maisy May ML, probably in conjunction with current placer mining. In 1990, R. Audet and R. Lavoie staked the Zap claims (YB30388) 4.5 km to the north at the head of Maisy May Creek, and the Laura claims (YB30388) 5 km further north at the head of Dredge Creek. L. Gatenby performed stripping on the Laura cl in 1992.

GEOLOGY

The claims are underlain by gneiss, quartzite and schist of the Yukon Tanana Terrane.

Appendix 2

Statement of Costs

Claims: NINA 1-74, YC17171 - YC17244

Dates worked: August 14, 21, 23, 24, 26, 29, 1999

September 1, 6, 12-18, 20-22, 29, 1999

<u>Item</u>	<u>Details</u>	<u>Amount and Unit Cost</u>	<u>Total Cost</u>
Labour	J. Peter Ross	19 days @ \$250/day	\$4,750.00
Camp Costs	J. Peter Ross	19 days @ \$35/day	665.00
Transportation	<u>Vehicle</u> Self-owned GMC km	\$1,450/month @ 25% 1,904 km @ \$0.42/km	362.50 800.00
Assaying	G. Jilson, Deltango Resources	25 rock samples @ \$20.06 + \$2 / kg shipping	550.00
	J. Peter Ross	17 rock samples @ \$23.80	404.60
	Copper Ridge	13 pan concentrate samples @ \$54.28	705.64
		13 silt samples @ \$36.83	476.49
Radio	Spilsbury SBX 11	Self owned \$150/month @ 25%	37.50
Report Preparation			740.00
		TOTAL COST	\$9,491.43

Nine thousand four hundred and ninety one dollars and forty three cents. \$7,400.00 will go towards 1 year of assessment work for each of 74 claims.

STATEMENT OF QUALIFICATIONS

I, John Peter Ross, do hereby certify that I:

1. am a qualified prospector with mailing address;
Box 4842
Whitehorse, Yukon
Canada. Y1A 4N8
2. graduated from McGill University in 1970 with a B.Sc. General Science
3. have attended and finished completely the following courses;
1974 - BC & Yukon Chamber of Mines, Prospecting Course
1978 - United Keno Hill Mines Limited, Elsa, Yukon, Prospecting Course
1987 - Yukon Chamber of Mines, Advanced Prospecting Course
1991 - Exploration Geochemistry Workshop, GSC Canada
1994 - Diamond Exploration Short Course, Yukon Geoscience Forum
1994 - Yukon Chamber of Mines, Alteration and Petrology for Prospectors
1994 - Applications of Multi-Parameter Surveys (Whitehorse), Ron Shives, GSC
1994 - Drift Exploration in Glaciated and Mountainous Terrain, BCGS
1995 - Applications of Multi-Parameter Surveys, (Vancouver) Ron Shives, GSC
1995 - Diamond Theory and Exploration, Short Course # 20, GSC Canada
1996 - New Mineral Deposit Models of the Cordillera, MDRU
1997 - Geochemical Exploration in Tropical Environments, MDRU
1998 - Metallogeny of Volcanic Arcs, Cordilleran Roundup Short Course
1999 - Volcanic Massive Sulphide Deposits, Cordilleran Roundup Short Course
1999 - Pluton-Related (Thermal Aureole) Gold, Yukon Geoscience Forum
4. did all the work and the writing of this report
5. have been on the Yukon Prospectors' Assistance and Yukon Mining Incentive Program 1986 - 1999
6. have been on the British Columbia Prospectors' Assistance Program 1989 - 1990
7. have a 100% interest in the claims described in this report at the present time

*24 November
2000*

J Peter Ross

Appendix 4

Rock Sample (Bedrock) Geochemistry - Assay Results

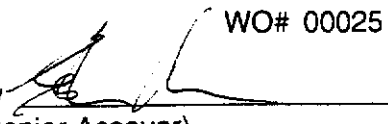
27/10/99

Certificate of Analysis

of pages (not including this page): 4

Peter Ross

WO# 00025

Certified by 
Justin Lemphers (Senior Assayer)

Date Received: 12/10/99

SAMPLE PREPARATION:

Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)
r	8	rock	Crush to -10 mesh; riffle split 200g; pulverize to -100 mesh
s	46	soil	Screen -80 mesh, extract ICP
s	46	soil	Screen -200 mesh

ANALYTICAL METHODS SUMMARY:

Symbol	Units	Element	Method (A:assay) (G:geochem)	Fusion/Digestion	Lower Limit	Upper Limit
Au 30g	ppb	Gold	G: FA/AAS	30g FA / aqua regia	5	7000

AAS = atomic absorption spectrophotometry
FA = fire assay

$$1000\text{ppb} = 1\text{ppm} = 1\text{g/mt} = 0.0001\% = 0.029166\text{oz/ton}$$



27/10/99

Certificate of Analysis

Page 4

Peter Ross

WO# 00025

Certified by



Sample #	Au 30g ppb
R74A	10
R74B	11
R75A	7
R75B	6
R76A	8
R76B	8
R77A	6
R77B	11



Appendix 5

Rock Sample (Float) Geochemistry - Assay Results

GEOCHEMICAL ANALYSIS CERTIFICATE

Deltango Gold Limited PROJECT TINTINA File # 9902605

38 Dawson Road, Whitehorse YT Y1A 5T6 Submitted by: Gregg Jilson

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti % ppm	B %	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
R-6	2.20	4.23	1.68	2.3	27	2.5	.6	56	.38	5.0	.2	1.3	.4	8.2	.04	.16	.04	2	.07	.020	2.3	17.5	.01	235.5	.001	2	.34	.089	.14	9.7	.04	<5	.1	<.02	.8	.01
R-8	5.21	6.28	2.11	1.1	136	8.5	.6	57	.46	2.9	<.1	.9	.4	1.5	.03	.45	<.02	3	.01	.001	1.7	40.7	.01	44.1	.001	1	.06	.011	.04	13.5	<.02	<5	<.1	.04	.2	<.01
R-10	10.79	139.01	174.16	109.7	311	89.6	10.7	417	8.17	26.7	1.4	5.0	2.8	5.4	.28	.97	<.02	78	.01	.151	9.0	60.5	.01	84.9	.009	<1	.40	.006	.05	11.9	<.02	<5	3.9	.57	1.0	<.01
R-15	267.33	46.10	245.14	29.3	1558	24.0	4.0	130	1.66	8.4	1.3	6.1	1.4	17.5	.22	3.88	9.05	20	.01	.015	13.6	46.0	.01	73.5	.002	1	.13	.004	.06	16.2	.13	<5	1.3	.68	.6	.08
R-19	6.96	8.24	2.81	6.4	21	5.7	2.1	152	.94	17.1	.2	.4	1.1	2.7	<.01	.34	.03	15	.02	.006	1.6	36.6	.08	62.5	.020	<1	.37	.020	.10	8.1	.13	<5	.6	.02	1.7	.01
R-20	5.95	4.83	2.48	1.7	15	6.5	.9	85	.38	1.7	.3	1.4	2.0	8.7	<.01	.11	.09	<2	.03	.004	6.8	26.7	.02	341.0	.003	1	.33	.089	.11	10.9	.06	<5	.1	.02	.8	<.01
R-25	2.79	5.72	1.84	2.5	15	5.8	1.2	140	.41	1.7	.4	<2	.8	9.0	.01	.08	<.02	<2	.09	.036	2.8	21.2	.02	81.6	.002	1	.41	.082	.19	12.1	.03	<5	.1	.02	1.1	<.01
R-27	32.63	27.12	5.64	174.8	278	176.5	10.7	345	18.49	93.1	.6	13.2	.7	13.9	.18	4.03	.07	35	.01	.197	2.1	23.1	.01	173.7	.003	<1	.40	.003	.03	1.7	.07	93	.5	.11	1.8	.01
R-29	5.43	13.32	1.64	33.5	23	33.3	5.9	296	1.88	5.4	.3	.8	2.8	3.3	.02	.21	<.02	38	.02	.016	3.6	39.5	.05	56.2	.004	<1	.25	.002	.03	15.1	.02	<5	.2	.03	.9	<.01
R-33	37.51	26.81	5.37	80.6	1164	57.7	3.4	135	7.01	42.8	.5	30.7	2.5	9.1	.08	3.49	.06	36	.02	.056	5.7	45.8	.01	112.6	.009	<1	.27	.005	.08	10.8	.02	45	3.2	.74	1.3	.01
R-38	19.07	36.85	.65	85.0	70	76.9	4.7	137	5.44	26.5	.3	5.0	2.8	6.9	.07	.94	<.02	86	.01	.052	5.1	45.5	.01	97.4	.007	1	.31	.003	.05	12.1	.02	<5	.4	.03	.9	<.01
R-40	17.30	72.41	4.06	69.0	490	99.2	14.3	330	5.95	41.8	.5	9.3	2.7	2.6	.22	1.35	<.02	54	.01	.069	7.4	50.1	.02	141.8	.015	<1	.27	.004	.11	8.9	.02	17	1.8	.30	.7	<.01
R-41	23.92	18.11	5.11	50.3	764	36.2	2.5	115	4.44	32.1	.3	21.0	2.7	7.8	.07	3.73	.17	31	.01	.036	7.1	35.3	.01	99.7	.006	1	.20	.002	.07	13.9	.06	26	1.5	.68	1.2	.01
R-43	22.35	30.22	3.69	28.6	211	33.8	5.0	156	2.60	17.3	.6	5.8	2.9	106.9	.07	.99	.03	78	.01	.096	9.1	65.4	.02	1375.8	.005	1	.58	.003	.06	8.7	.03	12	1.0	.11	2.4	.01
R-46	4.83	56.94	.94	94.8	49	53.0	15.6	958	3.06	8.7	.8	2.0	2.6	27.3	.14	.32	<.02	65	.03	.018	7.5	51.3	.06	215.2	.016	<1	.59	.003	.02	11.8	.04	<5	.5	.06	1.8	<.01
RE R-46	4.91	58.04	.94	95.8	50	53.6	15.5	950	3.06	8.9	.8	2.4	2.5	27.6	.13	.27	<.02	65	.03	.018	7.2	51.3	.06	210.5	.015	<1	.58	.002	.02	12.0	.04	7	.5	.08	1.8	<.01
R-53A	4.73	31.54	5.62	49.8	42	25.3	6.7	869	2.36	.7	.3	1.1	3.2	34.9	.13	.14	.08	100	.02	.014	2.9	73.3	.32	405.5	.071	1	.83	.005	.36	8.1	.21	<5	.2	.06	3.9	<.01
R-53B	2.82	23.49	7.41	60.0	41	40.1	12.2	1636	3.16	.6	.5	1.0	3.2	110.0	.14	.13	.07	82	.02	.024	7.2	49.6	.16	390.5	.037	2	1.40	.010	.28	8.1	.20	<5	.2	.05	4.1	<.01
R-53C	3.71	20.40	11.24	122.1	48	74.4	18.4	2344	5.29	.5	1.0	6.0	4.9	112.3	.17	.21	.07	162	.03	.020	8.3	51.2	.23	633.1	.057	3	1.47	.012	.35	3.6	.31	<5	.1	.04	4.9	<.01
R-53G	2.87	24.55	8.83	64.0	49	46.1	15.6	1204	4.97	.5	.5	15.1	2.7	79.7	.09	.14	.11	81	.04	.045	3.5	48.7	.10	782.7	.026	1	.60	.009	.15	9.5	.13	<5	.4	.07	2.3	<.01
R-53H	3.59	5.20	2.92	6.9	20	7.9	4.0	245	.45	.1	.2	2.7	.6	10.6	.02	.11	.03	3	.07	.027	1.3	24.7	.03	318.8	.004	<1	.54	.069	.19	9.6	.04	7	.1	<.02	1.5	.01
R-53I	2.04	30.32	8.80	85.1	37	37.3	7.9	579	2.83	.5	.8	1.9	6.0	15.6	<.01	.16	.15	125	.01	.014	3.2	56.9	.23	219.7	.060	1	.94	.005	.30	1.9	.27	13	.3	.07	4.4	<.01
ROAD-A	14.73	19.11	3.99	14.6	1796	23.3	4.1	371	3.31	10.8	.3	60.8	3.5	4.4	.03	.27	.03	41	<.01	.007	7.3	65.5	.01	235.8	.015	<1	.11	.007	.28	14.8	.04	8	2.9	1.24	.9	.55
ROAD-B	6.84	79.97	2.99	44.9	562	59.8	6.6	125	3.27	32.8	.4	9.7	3.1	6.4	.07	.98	.07	37	.01	.039	7.2	49.2	.02	71.6	.005	<1	.39	.005	.06	11.4	.02	12	.8	.13	1.0	.01
ROAD-D	60.99	73.70	4.13	144.5	405	96.2	15.8	748	11.94	49.1	.4	9.2	1.5	16.4	.26	1.28	.06	46	.01	.089	4.1	37.3	.01	270.3	.004	1	.43	.002	.08	7.9	.05	31	1.5	.16	1.2	<.01
ROAD-G	15.89	54.75	3.38	75.8	706	44.5	9.1	415	4.85	28.0	.4	21.8	3.1	3.3	.22	.68	.08	93	.01	.067	8.0	56.3	.01	111.2	.006	<1	.27	.003	.06	12.4	.02	22	2.2	1.52	1.2	<.01
STANDARD	13.76	127.65	28.72	156.2	233	35.5	11.8	806	3.16	58.4	20.3	195.3	3.4	29.2	11.22	10.31	10.66	73	.56	.084	14.6	158	.56	137.6	.111	2	1.74	.039	.16	7.6	1.98	249	2.3	1.92	5.8	.03

Standard is STANDARD DS2.

30 GRAM SAMPLE IS DIGESTED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 ML WITH WATER, ANALYSIS BY ICP/ES & MS.

THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.

- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 29 1999 DATE REPORT MAILED: Aug 10/99 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

27/10/99

Certificate of Analysis

of pages (not including this page): 2

Peter Ross

WO# 00032

Certified by 
Justin Lemphers (Senior Assayer)

Date Received: 19/10/99

<u>SAMPLE PREPARATION:</u>						
Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)			
r	40	rock	Crush to -10 mesh; riffle split 200g; pulverize to -100 mesh			

<u>ANALYTICAL METHODS SUMMARY:</u>						
Symbol	Units	Element	Method (A:assay) (G:geochem)	Fusion/Digestion	Lower Limit	Upper Limit
Au 30g	ppb	Gold	G: FA/AAS	30g FA / aqua regia	5	7000

AAS = atomic absorption spectrophotometry
FA = fire assay

$$1000\text{ppb} = 1\text{ppm} = 1\text{g/mt} = 0.0001\% = 0.029166\text{oz/ton}$$



27/10/99

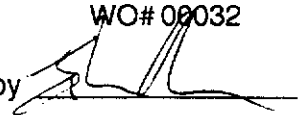
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Peter Ross

WO# 00032

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Sample #	Au 30g ppb
r R54	46
r R55A	7
r R55B	<5
r R56	18
r R57A	<5
r R57B	<5
r R58	<5
r R59A	<5
r R59B	27
r R59C	<5
r R59D	<5
r R59E	<5
r R60	<5
r R61	<5
r R62	<5
r R63	6
r R64	13
r R65	20
r R66	7
r R67	5
r R68	10
r R70A	6
r R70B	<5
r R70C	6
r R70D	<5
r R70E	<5
r R70F	<5
r R71	<5
r R72	6
r R73	<5



27/10/99

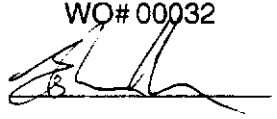
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WO# 00032

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Sample #	Au 30g ppb
r R79	<5
r R80	<5
r R81	<5
r R82	8
r R83	<5
r R84	<5
r R85	25
r R86	10
r R87	65
r R88	5



Appendix 6

Rock Sample Descriptions - Float Samples

<u>Sample Number</u>	<u>Description</u>
R54	Rough edges, silicified?, brown stain and sulphides
R55A	? - yellow green quartz, lots of sulphides
R55B	Stained outside yellow green brown - heavy, dark grey quartz and disseminated pyrite
R56	Meta-intrusive - outside yellow, feldspars green?
R57A	Meta-sediment - silicified, outside is yellow green, lots of sulphides
R57B	Meta-sediment - silicified, outside is yellow green, lots of sulphides
R58	Weird outside texture - rusty weathering and lots of sulphides (2-3%), lots of silica
R59A	Breccia or conglomerate?
R59B	Schist, yellow green stain, quartz stockwork
R59C	Fine grained volcanic rock
R59D	Metamorphosed intrusive
R59E	Fine grained volcanics, outside brown staining
R60	Quartz stockwork breccia - red altered clasts, chunks of intrusive
R61	Felsic intrusive - sulphides, quartz, pink potassic feldspar, sericite alteration
R62	Pegmatite dyke - sericite alteration, feldspars, grey quartz
R63	White fractured quartz with limonite breccias
R64	Intrusive - pyrrhotite (magnetic), sericite alteration, grey quartz and feldspars
R65	Green and dark green zones, garnets=skarn??
R66	Grey and white quartz, limonite boxwork, sulphides
R67	Grey quartz, some sulphides, 1 cm. band of biotite
R68	Similar to R86
R70A	Quartzite with holes in it
R70B	Quartz in volcanics
R70C	Breccia

R70D	Volcanic rock - manganese areas, nuggety look
R70E	Volcanic rock - crosscutting veinlets
R70F	Metamorphic quartz
R71	Meta-quartzite with quartz stockwork
R72	Meta-intrusive with yellow white altered feldspars?
R73	Pegmatite dyke - with grey quartz, muscovite, pink potassium feldspars?
R79	Grey quartz with lots of sulphides and small fine black specs
R80	Meta-sediment (volcanic?) - lots of sulphides, medium green, quartz and a few % pyrite
R81	Grey quartz - limonite on fractures, 1% pyrite and black specs
R82	Similar to R79
R83	Similar to R79
R84	Meta-sediment, some manganese and quartz
R85	Graphitic schist - grey quartz parallel to foliation, fine pyrite, limonite stockwork
R86	Intrusive? - silicified breccia, sulphides and holes, white quartz - brown stain outside
R87	Silicious quartz sericite schist - lots of limonite sulphides
R88	Similar to R86

Rock Sample Descriptions - Bedrock Samples

<u>Sample Number</u>	<u>Description</u>
	Fault was 4 m wide dipping about 60° to the north roughly parallel?? to side stream. Brown, yellow, black gouges up to 6" (quartz pieces), some harder parts has yellow, green stains.
R74	Chip sample - 1 m upstream end
R75	Chip sample - 1 m
R76	Chip sample - 1 m
R77	Chip sample - 1 m downstream end

Samples from head of Henderson Creek - J.P. Ross

Area	Sample	Description
Saddle	R06	Fractured muscovitic quartzite (or vein quartz?) - slightly rusty
Saddle	R08	Fine grained light grey to off white quartz, slightly fractured, has a fine grained clastic texture. Scattered dusting of fine grained dark grey sulphide (?) in quartz. Grey quartz cut by white quartz veins up to 1/2 cm wide - interesting vein material
Saddle	R10	Rusty brecciated light to medium grey fine grained quartz - sample seems dense - minor fine grained sulphides.
Saddle	R19	Brecciated blue grey to off white fine grained quartzite in granular quartz matrix
Saddle	R20	Coarse well foliated quartz feldspar muscovite gneiss - looks like a meta plutonic rock. Not particularly rusty, no sulphides seen
Road	R27	Rusty, slightly vuggy fine grained siliceous breccia - fine light grey quartz fragments in chocolate brown fine grained quartz
Road	R29	Quartz muscovite schist/gneiss - possible feldspar - trace sulphides (??) - may have argillized clasts along foliation
Road	R33	Broken up quartzite fragment in fine grained blue grey quartz cemented breccia with poorly sorted sub-angular clasts of light grey quartz (vein quartz?). Schist fragments similar to R43, breccia matrix similar to R41. Sample rusty and slightly vuggy
Road	R38	Slightly rusty and vuggy breccia with fragments of quartz muscovite schist - light grey to off white - may have trace of fine grained dark grey sulphides. Schist plus finely brecciated schist clasts in siliceous breccia matrix
Road	R40	Rusty to slightly vuggy fractured fine grained white to light grey quartz - vein quartz probably - traces of pyrite and casts after small pyrite cubes
Road	R41	Fine grained grey weakly foliated quartz - finely clastic texture - dusting of fine grained grey sulphide - arsenopyrite (??). Sample is rusty weathering and slightly vuggy
Road	R43	Appears to be a granulated grey Nasina quartzite broken up by shearing along foliation (??) Still has a remnant foliation - white clasts of quartz clay and muscovite rock (argillized fine grained prophyry??)
Road	R46	Slightly rusty breccia vein as R53G - fragments to 2 cm are sub-angular to rounded and mainly quartz muscovite feldspar garnet schist/gneiss
Road	ROAD A	Fine grained bluish grey quartz rich rock - mottled light grey and dark grey texture on cm. scale - suggestion of relict igneous texture but very unclear. Light grey quartz veins and veinlets. Rock weathers vuggy and slightly rusty - appears to be dusted through with fine grained grey sulphide (arspy + pyrite?)
Road	ROAD B	Blue grey foliated quartz muscovite schist - slightly brecciated fragments from breccia vein like ROAD G? probably broken up Nasina quartzite
Road	ROAD D	Sheared and brecciated grey quartz(ite?) (Nasina?) - rusty vuggy crackle veining between breccia fragments - part of sample a rusty vuggy quartz -Fe carbonate(?) vein?
Road	ROAD G	Rusty, vuggy breccia vein as previous. Fragments of quartz mica schist, both white and blue grey Nasina type; some vein quartz fragments. Matrix is fine grained blue grey quartz with clastic fabric, abundant orange rusty fractures, possible trace sulphides.
Hunters Camp	R53A	Rusty vuggy polymict breccia with very fine grained light grey quartz cement - fragments include mostly grey Nasina quartzite, some soft porphyry (?), metabasite and vein quartz
Hunters Camp	R53B	Vuggy rusty siliceous breccia - grey quartz schist fragments to 8 cm. long in matrix like R53C
Hunters Camp	R53C	Rusty reddish brown fine grained vuggy siliceous breccia - like a vuggy R27. Small light grey quartz and medium grey quartz schist fragments - weathering colour suggests possible weathered out Fe carbonate??
Hunters Camp	R53G	Breccia like R53A - large fragments of light grey muscovite quartz schist/gneiss - slightly rusty and vuggy
Hunters Camp	R53H	same as R25
Hunters Camp	R53I	Yellow to orange brown weathering fine grained slightly vuggy breccia like R53C - small mica flakes in breccia and clasts - could almost be a poorly sorted siliclastic rock but not likely
?	R15	Rusty vuggy vein quartz - some euhedral comb quartz. Mostly quartz is granular, +- 3 cm. Diameter granules. Maybe some quartzite wall rocks
?	R25	slightly rusty quartz feldspar muscovite rock - coarse grained, crudely foliated - meta-pegmatite?? (similar to R20 but coarser)

Appendix 7

Silt Sample Geochemistry (-200 mesh) - Assay Results


27/10/99

Certificate of Analysis

of pages (not including this page): 4

Peter Ross

WO# 00025

Certified by 
Justin Lemphers (Senior Assayer)

Date Received: 12/10/99

SAMPLE PREPARATION:

Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)
r	8	rock	Crush to -10 mesh; riffle split 200g; pulverize to -100 mesh
s	46	soil	Screen -80 mesh, extract ICP
s	46	soil	Screen -200 mesh

ANALYTICAL METHODS SUMMARY:

Symbol	Units	Element	Method (A:assay) (G:geochem)	Fusion/Digestion	Lower Limit	Upper Limit
Au 30g	ppb	Gold	G: FA/AAS	30g FA / aqua regia	5	7000

AAS = atomic absorption spectrophotometry
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$$1000\text{ppb} = 1\text{ppm} = 1\text{g/mt} = 0.0001\% = 0.029166\text{oz/ton}$$

27/10/99

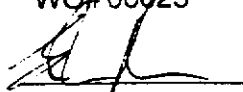
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Page 1

Peter Ross

WO# 00025

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Sample #	Au 30g ppb
s HC1 -200	8
s HC2 -200	36
s HC3 -200	8
s HC4 -200	7
s HC5 -200	39
s HC6 -200	25
s HC7 -200	8
s HC8 -200	13
s HC9 -200	9
s HC10 -200	6
s HC11 -200	9
s HC12 -200	7
s HC13 -200	9
s HC14 -200	14
s HC15 -200	15



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Peter Ross

WO# 00025

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Sample #	Au 30g ppb
s HC16 -200	54
s HC17 -200	129
s HC18 -200	55
s HC19 -200	17
s HC20 -200	20
s HC21 -200	14
s HC22 -200	82
s HC23 -200	32
s HC24 -200	11
s HC25 -200	34
s HC26 -200	31
s MMC1 -200	14
s MMC2 -200	8
s MMC3 -200	55
s MMC4 -200	25



27/10/99

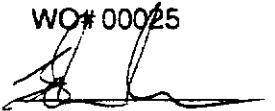
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Peter Ross

WO# 00025

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Sample #	Au 30g ppb
s MMC5 -200	7
s MMC6 -200	16
s MMC7 -200	87
s MMC8 -200	23
s MMC9 -200	30
s MMC10 -200	11
s MMC11 -200	69
s MMC12 -200	9
s MMC13 -200	24
s MMC14 -200	18
s MMC15 -200	7
s MMC16 -200	10
s MMC17 -200	27
s MMC18 -200	15
s MMC19 -200	50



27/10/99

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Peter Ross

WO# 00025

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Sample #	Au 30g ppb
s MMC20 -200	77



Appendix 8

Silt Sample Geochemistry (-80+200 mesh) - Assay Results


27/10/99

Certificate of Analysis

of pages (not including this page): 4

Peter Ross

WO# 00025

Certified by 
Justin Lemphers (Senior Assayer)

Date Received: 12/10/99

SAMPLE PREPARATION:

Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)
r	8	rock	Crush to -10 mesh; riffle split 200g; pulverize to -100 mesh
s	46	soil	Screen -80 mesh, extract ICP
s	46	soil	Screen -200 mesh

ANALYTICAL METHODS SUMMARY:

Symbol	Units	Element	Method (A:assay) (G:geochem)	Fusion/Digestion	Lower Limit	Upper Limit
Au 30g	ppb	Gold	G: FA/AAS	30g FA / aqua regia	5	7000

AAS = atomic absorption spectrophotometry
FA = fire assay

$$1000\text{ppb} = 1\text{ppm} = 1\text{g/mt} = 0.0001\% = 0.029166\text{oz/ton}$$

27/10/99

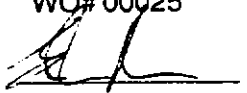
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Page 1

Peter Ross

WO# 00025

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Sample #	Au 30g ppb
s HC1 -80 +200	14
s HC2 -80 +200	5
s HC3 -80 +200	5
s HC4 -80 +200	115
s HC5 -80 +200	7
s HC6 -80 +200	6
s HC7 -80 +200	7
s HC8 -80 +200	<5
s HC9 -80 +200	148
s HC10 -80 +200	<5
s HC11 -80 +200	<5
s HC12 -80 +200	231
s HC13 -80 +200	6
s HC14 -80 +200	12
s HC15 -80 +200	8



27/10/99

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Peter Ross

WO# 00025

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Sample #	Au 30g ppb
s HC16 -80 +200	643
s HC17 -80 +200	30
s HC18 -80 +200	8
s HC19 -80 +200	12
s HC20 -80 +200	6
s HC21 -80 +200	14
s HC22 -80 +200	10
s HC23 -80 +200	9
s HC24 -80 +200	5
s HC25 -80 +200	<5
s HC26 -80 +200	<5
s MMC1 -80 +200	6
s MMC2 -80 +200	11
s MMC3 -80 +200	7
s MMC4 -80 +200	5



27/10/99

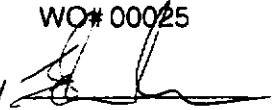
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Peter Ross

WO# 00025

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Sample #	Au 30g ppb
s MMC5 -80 +200	<5
s MMC6 -80 +200	20
s MMC7 -80 +200	5
s MMC8 -80 +200	7
s MMC9 -80 +200	144
s MMC10 -80 +200	6
s MMC11 -80 +200	<5
s MMC12 -80 +200	<5
s MMC13 -80 +200	5
s MMC14 -80 +200	6
s MMC15 -80 +200	<5
s MMC16 -80 +200	<5
s MMC17 -80 +200	11
s MMC18 -80 +200	6
s MMC19 -80 +200	8



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Peter Ross

WO# 00025

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Sample #	Au 30g ppb
s MMC20 -80 +200	14





GEOCHEMICAL ANALYSIS CERTIFICATE

Copper Ridge Exploration Inc. File # 9904796 Page 1

500 - 525 Howe St., Vancouver BC V6C 2T6 Submitted by: Mark Fields

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	S
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppb	ppm	ppm	ppm	%
HC 1	.66	15.69	6.17	51.8	59	22.9	7.5	269	1.66	3.3	1.7	.9	3.4	49.8	.14	.32	.19	42	.49	.070	11.5	30.5	.51	233.1	.081	5	.96	.012	.08	.5	.06	28	.5	.04	3.2	.02
HC 2	1.14	27.02	9.33	67.5	108	32.3	11.2	561	2.37	8.9	1.4	4.5	4.4	41.7	.25	.29	.17	62	.57	.132	14.8	47.2	.71	314.4	.110	<1	1.11	.012	.20	.4	.10	16	1.2	.07	4.1	.07
HC 3	.84	18.36	6.22	56.8	71	24.0	8.8	536	1.93	4.5	1.2	1.0	3.3	57.7	.20	.35	.10	48	.58	.097	14.3	31.7	.52	294.3	.090	1	1.05	.013	.10	.5	.07	31	.8	.03	3.4	.02
HC 4	.51	14.88	6.29	49.7	58	20.6	8.6	397	1.54	4.5	.8	1.7	3.2	24.1	.15	.37	.08	49	.40	.078	14.5	29.4	.47	263.4	.098	4	.96	.012	.09	.5	.07	30	.6	.03	3.1	.02
HC 5	.85	21.80	6.58	53.8	77	23.6	8.7	356	1.90	4.4	1.1	5.3	3.3	26.5	.17	.36	.10	52	.47	.091	13.5	32.8	.54	258.6	.093	4	1.00	.013	.10	.4	.07	23	.7	.03	3.5	.01
HC 6	.82	18.83	5.85	50.9	59	26.0	8.2	264	1.96	5.1	.9	2.4	3.4	20.6	.13	.33	.09	57	.46	.101	12.5	39.5	.54	273.4	.096	<1	1.02	.010	.09	.6	.06	24	.5	.03	3.7	.01
HC 7	.59	15.97	5.60	51.3	49	20.7	7.8	223	1.93	5.6	.8	.6	2.8	19.8	.14	.41	.09	50	.40	.092	11.2	28.6	.47	230.2	.077	<1	.90	.011	.06	.4	.05	21	.5	.03	3.1	.01
HC 8	.68	13.96	4.88	46.6	46	24.5	7.8	305	1.72	8.8	.7	.5	3.0	20.3	.11	.38	.07	49	.43	.103	11.1	36.7	.49	215.9	.084	1	.88	.011	.08	.4	.06	80	.4	.03	3.0	<.01
HC 9	1.10	15.94	7.44	56.5	56	21.1	7.3	276	1.86	5.0	2.8	1.7	4.2	67.6	.12	.30	.10	44	.55	.086	15.6	30.4	.47	230.7	.081	1	.98	.012	.07	.4	.06	23	.6	.03	3.4	.01
HC 10	.60	16.71	5.51	50.0	50	20.7	7.1	296	1.81	5.0	.7	2.2	2.9	24.7	.14	.39	.09	48	.48	.084	10.8	30.0	.50	209.8	.084	<1	.98	.013	.08	.4	.05	22	.5	.02	3.3	.01
HC 11	.54	14.60	4.70	46.0	54	21.5	7.7	172	1.73	4.2	.8	2.4	3.2	26.3	.08	.29	.06	50	.49	.082	11.2	30.7	.60	258.8	.102	<1	1.01	.013	.14	.4	.07	20	.6	.03	3.4	.01
HC 12	1.05	24.08	5.59	51.8	79	24.7	8.1	249	1.76	3.9	1.2	2.7	3.0	24.2	.15	.26	.08	51	.48	.110	14.1	36.0	.56	251.5	.091	2	.97	.011	.13	<.2	.08	30	.8	.03	3.6	.03
HC 13	.87	13.12	6.95	54.1	45	13.0	7.9	370	2.05	4.6	.9	17.2	3.9	29.4	.18	.32	.10	48	.48	.079	13.3	17.8	.52	190.9	.092	<1	.96	.012	.15	.3	.07	22	.4	.02	3.2	<.01
HC 14	.52	10.66	4.39	43.4	38	13.5	6.7	252	1.60	4.1	.9	8.9	4.3	25.8	.09	.34	.07	42	.48	.079	12.1	16.8	.44	154.4	.082	2	.79	.013	.08	.5	.05	15	.4	<.02	2.7	<.01
HC 15	.41	15.51	4.57	48.1	48	14.1	8.2	589	2.07	4.5	.8	8.4	3.2	31.7	.14	.32	.08	45	.58	.087	12.0	19.0	.51	219.6	.096	<1	1.00	.017	.13	.4	.06	19	.5	.02	3.2	<.01
HC 16	.71	17.94	8.27	55.2	59	23.5	8.6	343	1.94	6.7	.9	1.2	4.0	32.9	.16	.42	.11	49	.72	.097	12.0	28.8	.56	194.8	.085	1	.87	.014	.11	.4	.08	10	.5	.07	3.1	<.01
HC 17	.80	16.39	4.31	47.8	69	14.7	8.4	328	2.22	3.4	1.3	19.7	4.9	26.1	.08	.16	.11	56	.55	.111	13.5	26.3	.67	195.7	.110	<1	1.31	.009	.33	<.2	.11	17	.4	.04	4.6	<.01
HC 18	.84	19.31	16.03	76.5	124	27.8	9.1	388	1.88	6.9	1.3	1.9	3.2	41.3	.23	.35	.18	50	.49	.095	14.1	39.1	.54	211.1	.070	3	1.04	.009	.09	.5	.07	25	.7	.06	3.6	.02
HC 19	.84	11.73	4.47	42.8	35	10.9	7.6	334	1.71	3.4	.8	2.1	2.7	23.2	.12	.25	.07	42	.48	.091	8.7	15.8	.48	172.0	.089	<1	.87	.012	.12	.3	.06	19	.3	.02	2.8	<.01
HC 20	.76	10.79	4.67	42.2	41	11.3	8.1	427	1.66	3.4	1.0	6.2	3.1	23.7	.15	.23	.07	43	.48	.091	10.4	16.0	.44	154.9	.087	<1	.87	.013	.10	.7	.05	26	.4	.02	2.9	.01
RE HC 24	.45	8.66	3.95	37.3	30	10.2	8.1	336	1.66	4.1	.6	3.3	2.3	20.6	.11	.21	.06	38	.46	.088	7.7	16.2	.41	124.1	.069	<1	.82	.014	.07	.3	.04	30	.3	.02	2.7	<.01
HC 21	2.05	45.08	7.81	73.8	347	48.0	11.6	463	2.94	7.8	2.9	14.4	3.6	42.7	.23	.44	.23	89	.65	.091	16.5	74.7	.87	632.1	.105	<1	1.80	.010	.27	<.2	.13	33	1.2	.09	6.6	.02
HC 22	1.57	19.13	28.19	108.2	203	33.5	12.5	2823	2.24	15.9	1.6	2.5	3.0	62.7	.52	.57	.32	51	.53	.087	15.0	42.0	.58	259.6	.068	<1	1.16	.009	.06	.4	.09	33	1.0	.10	3.9	.02
HC 23	1.05	12.49	5.54	55.3	55	12.3	9.4	422	2.10	4.0	1.3	.3	2.5	25.3	.18	.25	.08	47	.47	.081	9.8	16.5	.48	163.5	.086	<1	.98	.016	.12	.3	.06	35	.5	.02	3.3	.01
HC 24	.43	8.18	4.10	39.5	32	10.5	7.8	333	1.67	3.9	.6	.7	2.4	20.8	.12	.21	.06	38	.46	.088	8.5	16.2	.41	127.4	.067	<1	.83	.012	.07	<.2	.04	25	.3	.02	2.7	.01
HC 25	.38	11.37	4.11	38.2	41	12.1	6.3	254	1.45	2.3	.7	<.2	2.8	23.7	.09	.19	.06	39	.42	.094	10.9	18.9	.44	177.8	.098	<1	.93	.008	.16	.4	.07	21	.4	<.02	3.0	<.01
HC 26	.84	20.52	5.74	46.2	49	19.2	4.8	203	1.54	3.5	1.0	2.8	3.2	13.0	.10	.19	.10	45	.21	.066	15.9	30.6	.43	160.7	.097	<1	.99	.007	.17	.4	.10	18	.6	.05	4.0	<.01
MMC 1	.83	22.10	4.93	56.5	70	32.4	9.7	345	2.02	4.6	.8	.3	2.8	22.9	.16	.33	.08	57	.49	.100	11.6	47.7	.66	303.0	.102	<1	1.07	.010	.14	.4	.08	21	.7	.04	4.1	.01
MMC 2	.53	18.56	6.61	63.0	58	22.1	10.7	486	2.24	4.2	1.0	1.3	3.8	33.4	.15	.28	.09	50	.62	.079	14.5	30.5	.66	187.4	.094	<1	1.14	.013	.14	.3	.09	29	.6	.02	4.1	.02
MMC 3	.96	26.42	5.68	69.5	72	33.4	12.6	532	2.42	4.6	1.1	.5	3.2	30.5	.17	.33	.08	65	.56	.091	13.0	50.5	.81	354.4	.103	<1	1.25	.012	.19	.2	.10	21	.8	.04	4.6	.02
MMC 4	1.12	26.73	5.17	66.5	70	38.0	11.6	442	2.22	5.5	1.1	.3	2.7	26.2	.20	.46	.08	61	.54	.107	12.5	53.0	.71	322.4	.096	<1	1.12	.011	.15	.6	.08	33	.9	.04	4.2	.01
MMC 5	.75	20.26	4.96	50.9	68	27.9	10.9	656	1.90	3.8	.9	22.8	3.0	24.2	.17	.26	.07	50	.52	.122	11.5	41.2	.55	290.3	.087	<1	.95	.009	.13	.4	.07	21	.8	.04	3.4	.01
MMC 6	1.05	15.13	4.91	58.8	56	18.7	10.1	477	2.07	3.0	1.3	.7	3.2	25.3	.14	.20	.07	51	.52	.095	11.9	28.0	.61	206.6	.094	<1	1.06	.011	.15	.3	.08	22	.5	.03	3.9	.01
MMC 7	.50	16.33	3.77	38.1	68	23.8	6.3	234	1.31	2.7	.7	28.7	2.8	17.0	.11	.20	.06	42	.44	.124	12.2	31.0	.41	207.9	.078	<1	.80	.008	.08	1.3	.05	26	.6	.02	3.0	<.01
MMC 8	1.03	25.96	4.75	58.6	79	35.3	10.1	370	2.00	4.7	.9	18.9	2.5	22.2	.20	.31	.07	56	.51	.116	11.8	47.6	.61	277.9	.096	<1	1.07	.009	.14	.3	.08	52	1.2	.03	4.0	.02
STANDARD DS2	14.40	133.87	30.70	165.9	244	36.9	13.2	856	3.33	61.2	24.5	214.2	3.7	30.2	10.86	10.03	11.70	84	.56	.086	17.1	175.4	.63	149.3	.109	1	1.73	.033	16	8.1	2.02	260	2.5	1.83	6.3	.01

GROUP 1F5 - 5.00 GM SAMPLE, 30 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 100 ML. ANALYSIS BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SS PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: DEC 14 1999 DATE REPORT MAILED: Dec 24/99 SIGNED BY: [Signature] D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data FA



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
MMC 9	1.51	27.36	7.92	77.5	118	26.5	12.0	489	2.28	3.5	1.8	2.5	3.6	25.7	.23	.28	.15	71	.57	.087	16.0	36.6	.68	230.9	.090	1	1.26	.010	.12	.3	.09	27	.8	.05	4.5	.02
MMC 10	1.33	14.28	5.70	55.1	71	16.7	10.4	592	2.02	2.5	1.6	6.1	3.4	26.4	.14	.20	.08	51	.52	.101	11.9	24.3	.62	214.2	.099	<1	1.12	.010	.16	.5	.09	35	.4	.02	3.8	.02
MMC 11	.77	18.10	3.99	39.6	59	32.2	8.1	434	1.51	2.9	1.2	5.8	3.5	24.9	.14	.23	.07	47	.96	.311	11.6	41.5	.50	240.5	.074	<1	.79	.007	.11	.8	.06	10	.2	.05	2.6	.01
MMC 12	.73	22.08	5.18	57.5	76	33.6	11.0	581	2.04	4.1	.9	2.7	3.3	23.8	.15	.27	.08	58	.49	.088	12.7	47.3	.63	393.8	.104	<1	1.18	.010	.15	.5	.09	39	.7	.03	4.1	.02
MMC 13	.49	17.33	4.07	41.2	57	21.4	5.9	205	1.27	1.9	.7	22.6	2.6	17.1	.10	.15	.05	47	.52	.140	10.4	34.0	.43	269.9	.090	2	.88	.008	.10	.8	.07	19	.4	.04	3.2	.01
MMC 14	.56	15.00	4.49	37.3	50	18.9	7.7	367	1.28	3.2	.8	1.2	2.6	21.6	.12	.22	.06	37	.41	.102	11.1	26.2	.36	203.8	.073	3	.83	.009	.08	.3	.07	32	.5	.02	2.8	.01
MMC 15	.47	13.27	5.97	38.2	51	14.1	5.8	246	1.36	3.7	.9	2.6	2.9	25.9	.10	.28	.09	37	.32	.064	12.4	20.8	.31	200.7	.069	1	.92	.009	.08	<2	.08	26	.4	.03	3.0	<.01
MMC 16	.64	19.75	6.42	52.7	91	22.6	7.7	287	1.53	3.7	.9	1.0	2.1	19.2	.14	.32	.09	45	.32	.072	14.2	28.6	.41	261.2	.088	1	1.16	.008	.08	.6	.10	45	.8	.06	3.9	.01
MMC 17	.59	25.24	5.34	63.1	46	29.8	9.5	218	2.05	2.5	.9	.9	3.7	26.1	.13	.18	.06	53	.57	.143	14.6	41.1	.61	276.0	.089	2	1.16	.007	.21	.2	.12	23	.4	.04	4.1	<.01
RE MMC 17	.65	24.18	5.41	68.1	49	29.9	9.9	239	2.12	2.8	.9	1.5	3.9	26.9	.17	.18	.07	55	.59	.148	14.5	42.9	.64	277.2	.094	1	1.21	.007	.22	.3	.12	23	.4	.03	4.2	<.01
MMC 18	.79	19.68	4.13	50.9	58	31.4	9.0	402	1.82	3.9	.7	1.9	2.9	21.1	.13	.31	.08	55	.50	.103	12.1	47.1	.56	331.6	.091	3	1.05	.010	.13	.6	.06	24	.8	.02	3.4	.01
MMC 19	2.01	13.24	4.82	49.3	86	13.9	8.9	516	2.10	2.5	1.0	22.3	4.1	24.9	.10	.20	.09	55	.56	.107	15.3	23.8	.59	244.5	.100	1	1.15	.011	.18	1.0	.09	47	.5	.02	3.7	.01
MMC 20	.54	11.89	4.58	50.2	45	13.6	9.1	351	1.94	2.6	.6	4.0	2.8	27.5	.08	.22	.06	50	.60	.103	10.8	24.1	.62	156.7	.095	2	1.20	.015	.08	.6	.06	43	.3	<.02	3.8	.01
STANDARD DS2	14.51	136.14	32.61	168.7	254	38.7	13.6	841	3.20	62.6	25.3	207.9	4.1	30.3	11.38	10.28	11.60	85	.56	.088	17.5	177.8	.64	165.1	.116	5	1.86	.033	.17	8.0	2.09	259	2.6	1.91	6.4	.02

Sample type: SS PULP. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Appendix 9

Pan Concentrate Geochemistry - Assay Results

Sample #	Dry weight in grams	Sample #	Dry weight in grams*
HC1	482	MMC1	398
HC2	541	MMC2	434
HC3	510	MMC3	474
HC4	498	MMC4	501
HC5	496	MMC5	402
HC6	483	MMC6	415
HC7	408	MMC7	355
HC8	387	MMC8	386
HC9	411	MMC9	433
HC10	461	MMC10	370
HC11	381	MMC11	465
HC12	382	MMC12	451
HC13	399	MMC13	371
HC14	427	MMC14	365
HC15	458	MMC15	413
HC16	412	MMC16	362
HC17	445	MMC17	444
HC18	303	MMC18	483
HC19	375	MMC19	417
HC20	449	MMC20	519
HC21	452		
HC22	454		
HC23	416		
HC24	409		
HC25	500		
HC26	492		

*weight includes sample bag and ribbon

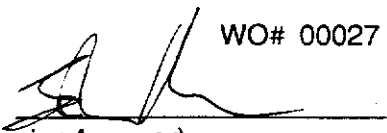
27/10/99

Certificate of Analysis

of pages (not including this page): 2

Peter Ross

WO# 00027

Certified by 
Justin Lemphers (Senior Assayer)

Date Received: 13/10/99

SAMPLE PREPARATION:							
Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)				
c	46	concentrate	Riffle split 200g, pulverize to -100 mesh (if necessary)				

ANALYTICAL METHODS SUMMARY:							
Symbol	Units	Element	Method (A:assay) (G:geochem)	Fusion/Digestion	Lower Limit	Upper Limit	
Au 30g	ppb	Gold	G: FA/AAS	30g FA / aqua regia	5	7000	

AAS = atomic absorption spectrophotometry

FA = fire assay

1000ppb = 1ppm = 1g/mt = 0.0001% = 0.029166oz/ton



27/10/99

Certificate of Analysis

Page 1

Peter Ross

WO# 00027

Certified by 

	Sample #	Au 30g ppb
c	HC PAN 1	5
c	HC PAN 2	50
c	HC PAN 3	14
c	HC PAN 4	21
c	HC PAN 5	35
c	HC PAN 6	8
c	HC PAN 7	25
c	HC PAN 8	10
c	HC PAN 9	6
c	HC PAN 10	7
c	HC PAN 11	9
c	HC PAN 12	42
c	HC PAN 13	32
c	HC PAN 14	11
c	HC PAN 15	83
c	HC PAN 16	873
c	HC PAN 17	8
c	HC PAN 18	454
c	HC PAN 19	3099
c	HC PAN 20	104
c	HC PAN 21	14
c	HC PAN 22	12
c	HC PAN 23	5
c	HC PAN 24	68
c	HC PAN 25	6
c	HC PAN 26	7
c	MMC PAN 1	<5
c	MMC PAN 2	108
c	MMC PAN 3	9
c	MMC PAN 4	<5



27/10/99

Certificate of Analysis

Page 2

Peter Ross

WO# 00027

Certified by 

	Sample #	Au 30g ppb
c	MMC PAN 5	<5
c	MMC PAN 6	8
c	MMC PAN 7	<5
c	MMC PAN 8	<5
c	MMC PAN 9	444
c	MMC PAN 10	<5
c	MMC PAN 11	15
c	MMC PAN 12	<5
c	MMC PAN 13	7
c	MMC PAN 14	<5
c	MMC PAN 15	14
c	MMC PAN 16	5
c	MMC PAN 17	16
c	MMC PAN 18	<5
c	MMC PAN 19	7
c	MMC PAN 20	8



GEOCHEMICAL ANALYSIS CERTIFICATE

Copper Ridge Exploration Inc. File # 9904797 Page 1

500 - 625 Howe St., Vancouver BC V6C 2T6 Submitted by: Mark Fields



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %	
HC PAN 1	.51	7.98	4.65	40.3	12	12.7	6.4	246	1.46	1.4	.9	1.8	4.3	29.5	.11	.14	.06	39	.34	.061	8.9	63.8	.50	160.6	.096	<1	.87	.019	.24	.4	.09	10	.1	<.02	2.9	.01	
HC PAN 2	.93	12.66	4.66	28.2	85	15.8	5.2	308	1.13	8.6	.7	30.8	2.5	17.6	.12	.14	.09	33	.34	.091	7.1	69.0	.35	177.9	.058	<1	.55	.013	.11	.8	.05	<.05	6	.02	1.9	.10	
HC PAN 3	.77	9.36	4.75	34.1	20	15.8	5.5	285	1.24	3.0	1.0	1.3	4.1	28.1	.08	.18	.06	34	.34	.099	10.9	72.5	.32	177.8	.086	1	.63	.018	.11	.4	.05	9	.3	.02	2.2	.01	
HC PAN 4	.50	8.79	3.22	29.7	25	15.1	4.9	267	1.18	3.0	.5	7.5	2.7	14.0	.08	.13	.03	35	.36	.091	9.3	77.4	.34	197.8	.075	<1	.66	.013	.10	.5	.04	10	.3	<.02	2.1	.01	
HC PAN 5	.86	10.61	3.59	29.9	415	13.5	5.4	311	1.20	2.7	.7	3184.6	3.2	16.0	.10	.14	.05	36	.44	.097	9.3	72.4	.35	170.9	.071	1	.64	.016	.11	3.2	.04	12	.3	.02	2.1	.02	
HC PAN 6	.64	9.15	2.95	23.2	29	14.8	4.3	148	.98	2.7	.5	27.3	2.5	9.2	.05	.15	.04	34	.29	.081	7.5	78.6	.28	140.2	.071	2	.55	.014	.08	.6	.03	16	.2	.02	2.1	<.01	
HC PAN 7	.57	7.47	2.78	26.2	23	14.2	4.2	164	1.01	2.3	.5	5.4	2.6	10.8	.07	.18	.04	31	.35	.091	8.3	96.1	.29	133.5	.074	3	.56	.017	.07	.6	.03	13	.1	<.02	2.0	<.01	
HC PAN 8	.61	8.34	2.70	27.7	43	17.7	4.8	255	1.04	3.8	.5	38.2	2.8	12.1	.06	.21	.03	35	.35	.092	10.0	102.0	.33	150.3	.074	3	.56	.014	.08	.8	.03	15	.3	<.02	1.9	<.01	
HC PAN 9	.85	8.90	5.41	42.2	<2	16.8	5.9	336	1.42	3.0	1.7	4.9	5.0	37.9	.06	.19	.06	42	.44	.097	15.6	86.6	.35	174.0	.099	4	.68	.021	.07	.9	.04	7	.3	.03	2.5	<.01	
HC PAN 10	.52	8.33	2.89	24.3	21	13.7	4.8	210	1.04	2.7	.4	5.0	2.2	12.6	.08	.17	.04	33	.39	.079	6.4	72.2	.30	96.7	.079	2	.60	.020	.06	.4	.03	9	.2	.02	1.9	<.01	
HC PAN 11	.48	7.54	2.61	24.5	20	12.4	4.8	191	1.04	1.6	.6	3	3.2	17.4	.06	.13	.03	34	.52	.091	8.4	84.7	.35	106.7	.099	1	.69	.020	.10	.5	.03	9	.2	<.02	2.4	<.01	
HC PAN 12	1.01	13.21	3.53	26.2	49	15.1	5.3	301	1.15	2.3	.8	32.4	2.4	15.2	.10	.12	.05	36	.43	.095	7.2	87.2	.32	163.2	.072	2	.62	.017	.10	1.0	.04	7	.5	.03	2.0	.06	
HC PAN 13	.89	5.54	5.76	24.1	58	4.5	4.9	248	1.50	1.8	.8	537.2	5.9	27.8	.07	.12	.06	51	.50	.062	11.5	63.6	.19	113.4	.078	3	.63	.017	.09	3.3	.05	5	.2	.02	2.4	<.01	
HC PAN 14	.37	5.13	3.10	23.8	14	5.6	3.8	173	.97	1.6	.7	17.0	5.2	19.7	.05	.16	.05	29	.38	.057	11.5	47.8	.23	109.9	.063	5	.58	.021	.08	.9	.04	18	.1	<.02	2.0	.01	
HC PAN 15	.35	6.16	3.81	27.7	28	7.9	10.6	321	3.11	1.6	.5	2.9	2.5	22.2	.07	.13	.06	63	.76	.081	7.0	50.6	.38	87.3	.110	4	.79	.040	.06	.5	.02	7	.2	<.02	3.5	<.01	
HC PAN 16	.85	13.98	10.80	39.1	52	18.7	7.8	403	1.98	6.0	1.0	3.3	5.8	22.1	.15	.36	.34	51	.61	.112	14.8	75.8	.39	169.8	.098	3	.76	.023	.10	2.3	.04	16	.6	.10	2.9	<.01	
HC PAN 17	.69	9.97	3.27	30.3	24	10.3	6.3	286	1.55	2.2	.9	6.5	5.3	20.6	.07	.11	.09	45	.62	.113	10.9	62.8	.38	118.1	.094	4	.85	.022	.19	.8	.05	5	.3	.02	2.8	<.01	
HC PAN 18	1.00	16.44	10.19	46.5	63	24.8	6.9	393	1.50	5.1	.7	12.0	3.2	19.7	.12	.29	.18	38	.35	.087	11.6	109.5	.35	153.2	.053	4	.74	.013	.08	3	.04	6	.6	.09	2.3	<.01	
RE HC PAN 18	1.10	17.34	11.53	47.0	63	24.7	7.0	397	1.52	5.5	.8	1.2	3.5	20.1	.14	.31	.19	39	.36	.087	11.7	112.2	.36	143.1	.058	2	.75	.014	.09	.3	.05	<.05	5	.6	.08	2.5	<.01
HC PAN 19	.85	8.13	3.75	27.5	169	7.3	9.9	380	2.10	2.0	.6	1789.2	2.6	23.4	.10	.14	.08	45	.72	.086	6.7	62.2	.38	95.4	.101	3	.80	.044	.09	1.4	.03	10	.2	.02	3.0	<.01	
HC PAN 20	.50	4.54	2.54	23.6	105	5.6	5.1	251	1.28	1.3	.5	638.8	2.6	20.3	.06	.10	.03	37	.67	.083	7.7	47.2	.37	83.4	.097	3	.76	.036	.08	.6	.02	11	.1	<.02	2.2	<.01	
HC PAN 21	1.77	31.40	6.52	51.7	60	41.4	11.6	533	2.39	6.2	1.0	15.8	4.1	14.8	.17	.30	.25	74	.44	.103	12.3	106.5	.68	239.6	.103	4	1.19	.015	.23	<.2	.09	<.05	8	.08	4.3	.01	
HC PAN 22	1.08	12.53	26.86	66.5	110	24.0	7.0	716	1.49	13.6	.8	26.1	3.3	22.8	.19	.55	.33	37	.27	.075	11.6	74.2	.37	152.8	.047	4	.71	.010	.06	.3	.05	6	.5	.10	2.4	.01	
HC PAN 23	.89	6.17	3.82	31.6	25	7.4	5.7	266	1.55	1.7	.6	4.2	2.4	20.9	.11	.12	.07	40	.62	.085	6.6	57.1	.34	120.5	.097	1	.79	.040	.08	.3	.03	7	.3	.02	2.4	.01	
HC PAN 24	.36	5.06	2.46	24.1	16	6.9	7.2	255	1.66	2.2	.4	14.4	2.1	19.6	.05	.12	.03	39	.72	.091	6.0	50.1	.41	60.5	.105	1	.80	.043	.06	.6	.02	6	.2	<.02	2.5	<.01	
HC PAN 25	.30	4.75	2.49	18.7	8	5.7	3.1	252	.89	.8	.6	11.0	3.3	28.7	.06	.09	.02	29	.65	.114	9.5	55.6	.21	62.9	.072	1	.62	.017	.07	.8	.02	13	.2	<.02	1.9	<.01	
HC PAN 26	.75	12.82	2.79	25.6	21	11.7	2.9	284	1.15	1.9	.8	<.2	3.7	9.2	.06	.10	.04	36	.24	.071	12.3	65.1	.23	118.8	.082	2	.59	.008	.16	.3	.06	6	.3	.02	2.2	<.01	
MHC PAN 1	.86	12.35	2.52	26.8	23	20.5	5.6	427	1.31	2.8	.6	<.2	2.6	13.6	.11	.25	.03	38	.53	.113	8.3	88.0	.37	158.9	.086	1	.64	.015	.07	1.1	.03	5	.5	.03	1.9	.01	
MHC PAN 2	.74	14.64	7.41	40.8	53	17.6	10.3	394	2.07	3.8	.7	3.5	4.6	23.9	.35	.18	.05	43	.51	.076	10.8	70.3	.53	142.4	.087	3	.98	.024	.12	.9	.06	5	.4	.05	3.2	.01	
MHC PAN 3	.85	16.65	3.66	30.4	166	19.7	8.5	507	1.62	2.7	.6	2888.0	3.0	19.2	.17	.22	.03	41	.50	.091	7.5	74.8	.47	180.4	.081	1	.77	.018	.12	.7	.05	14	.6	.05	2.3	.01	
MHC PAN 4	1.05	18.77	3.05	35.1	29	29.6	8.1	433	1.49	3.7	.6	11.5	2.1	12.1	.13	.33	.04	44	.44	.101	7.8	80.1	.43	202.1	.076	<1	.66	.013	.10	.3	.04	<.05	7	.05	2.1	.01	
MHC PAN 5	.74	10.89	2.22	24.3	26	21.1	7.0	546	1.03	1.8	.5	2.9	2.1	12.2	.09	.10	.03	33	.44	.114	7.0	101.3	.34	178.0	.070	1	.52	.013	.09	<.2	.03	8	.4	.02	1.7	.01	
MHC PAN 6	.80	6.95	2.96	30.2	19	10.9	6.3	354	1.24	1.6	.6	1.5	2.9	14.7	.07	.09	.03	34	.41	.077	6.7	61.9	.36	112.0	.070	2	.72	.020	.10	.4	.04	6	.2	<.02	2.5	.01	
MHC PAN 7	.65	9.77	2.08	24.3	26	16.4	4.5	386	1.09	1.6	.5	<.2	2.4	11.8	.09	.18	.03	36	.50	.116	8.0	105.2	.32	128.3	.093	<1	.59	.017	.07	.7	.03	13	.5	.02	1.8	.01	
MHC PAN 8	.69	10.93	1.86	25.5	25	18.7	4.5	376	1.20	1.7	.5	<.2	2.1	12.5	.10	.15	.03	38	.54	.136	8.6	95.3	.33	123.8	.084	<1	.62	.015	.07	.4	.03	12	.5	.03	1.8	.01	
STANDARD DS2	14.54	136.15	31.31	165.8	261	36.3	13.3	829	3.35	61.3	24.5	218.0	3.7	30.1	11.53	10.14	11.35	84	.56	.090	17.1	174.4	.63	155.2	.116	4	1.84	.032	.16	8.1	2.06	272	2.7	1.90	6.4	.02	

GROUP 1F15 - 15.00 GM SAMPLE, 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML, ANALYSIS BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: PC PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: DEC 14 1999 DATE REPORT MAILED: Dec 23/99 SIGNED BY: *CL* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Data FA



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
MMC PAN 9	1.20	12.98	3.74	40.7	47	16.3	7.2	393	1.51	1.8	.7	59.6	2.7	13.2	.13	.14	.09	49	.41	.073	6.8	84.5	.43	139.2	.064	<1	.80	.018	.09	.7	.05	<5	.3	.03	2.7	.02
MMC PAN 10	.93	6.74	3.72	29.1	24	9.1	6.2	451	1.25	1.5	.7	2.0	3.0	17.4	.08	.10	.05	35	.45	.070	6.5	70.5	.37	120.8	.074	<1	.73	.026	.11	.2	.05	<5	.1	<.02	2.5	.01
MMC PAN 11	.83	14.55	2.92	24.1	45	25.0	6.1	730	1.35	2.1	1.2	26.8	3.1	22.7	.20	.17	.06	41	1.22	.369	10.0	90.1	.40	261.3	.088	<1	.65	.022	.09	.8	.03	<5	<.1	.04	2.0	.03
MMC PAN 12	.52	9.70	2.13	28.0	29	18.8	5.5	290	.99	1.9	.4	.3	2.2	10.4	.07	.10	.03	33	.32	.082	6.8	83.8	.35	208.6	.069	<1	.58	.012	.12	.3	.05	<5	.2	.02	2.0	.02
MMC PAN 13	.52	9.21	2.05	21.7	38	13.1	3.3	338	.82	.8	.6	17.9	2.2	11.6	.11	.08	.03	31	.62	.188	7.1	105.7	.22	123.9	.080	1	.52	.015	.06	.8	.02	8	.3	<.02	1.6	.01
MMC PAN 14	.48	7.80	2.50	20.4	27	13.2	4.3	317	.88	2.1	.5	1.9	2.3	15.6	.05	.10	.02	27	.52	.120	8.8	86.5	.28	114.8	.095	1	.53	.025	.07	.3	.04	<5	.3	<.02	1.7	.01
MMC PAN 15	.46	5.55	3.47	15.8	25	7.8	2.7	172	.64	1.9	.5	.3	2.6	17.3	.05	.14	.04	21	.24	.061	8.5	81.3	.14	114.2	.070	1	.41	.021	.07	<.2	.04	<5	.2	<.02	1.5	.01
MMC PAN 16	.62	7.57	2.39	22.5	33	12.8	3.2	436	.92	2.1	.6	<.2	2.9	12.2	.06	.13	.03	31	.37	.101	10.9	94.1	.20	118.1	.086	1	.55	.014	.08	.7	.06	<5	.1	.02	1.8	.01
RE MMC PAN 16	.68	7.93	2.57	22.2	40	13.3	3.4	411	.88	2.2	.7	61.3	3.1	11.6	.08	.16	.04	29	.36	.098	10.4	91.5	.19	127.3	.086	3	.52	.015	.08	.8	.04	10	.4	.02	1.8	.01
MMC PAN 17	.59	16.50	4.71	34.7	43	21.3	6.2	257	1.40	2.1	1.1	39.4	4.2	54.0	.15	.13	.06	38	.88	.196	10.3	76.9	.35	172.1	.100	2	.79	.016	.12	.3	.05	8	.5	.02	2.9	<.01
MMC PAN 18	.55	9.81	1.90	23.4	27	19.9	4.4	223	.92	1.8	.4	5.0	2.5	9.9	.07	.11	.03	33	.40	.118	8.2	84.2	.32	165.2	.075	3	.54	.011	.11	.6	.04	12	.4	.02	1.8	.01
MMC PAN 19	1.21	5.75	2.83	24.9	25	7.7	5.0	283	1.21	1.0	.8	9.2	4.3	17.3	.08	.09	.07	35	.58	.123	9.4	64.4	.33	109.6	.077	1	.70	.020	.12	1.2	.05	16	.3	<.02	2.2	.01
MMC PAN 20	.39	3.87	2.86	25.2	13	6.5	5.7	210	1.21	1.2	.3	.7	2.5	18.0	.05	.09	.03	34	.55	.080	6.0	41.4	.41	59.6	.076	3	.74	.030	.07	.5	.02	8	.2	<.02	2.3	.01
STANDARD DS2	14.70	135.86	31.85	166.8	263	37.9	13.7	868	3.19	61.4	23.6	215.9	3.6	30.1	11.33	10.46	11.49	85	.57	.083	17.7	174.8	.63	161.8	.116	3	1.86	.033	.16	7.9	2.11	273	2.7	1.92	6.4	.03

Sample type: PC PULP. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.