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MINERAL EXPLORATION REPORT  
GEOLOGICAL/GEOPHYSICAL/PROSPECTING  
1992

SUB-RECORDER  
RECEIVED  
NOV 23 1992  
M.R. # .....  
Vancouver B.C.

CAMELIA PROJECT  
(CAMP MCKINNEY)  
GREENWOOD MINING DIVISION  
BRITISH COLUMBIA  
NTS: 82E/03E

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

22,643

PREPARED BY: JOHN A. CHAPMAN, P.ENG.  
DATE: NOVEMBER 1992  
RE: "ASSESSMENT REPORT" TO BRITISH COLUMBIA MINISTRY  
OF ENERGY, MINES AND PETROLEUM RESOURCES

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## INTRODUCTION

This report is a summary of reconnaissance exploration carried out on the Caramelia property in 1992. The work was conducted under Annual Work Approval Number: KAM 92-0400062-1620.

The purpose of the work was to locate old reference points from prior geophysical and soil sampling surveys, and to generally prospect the area for exploration targets that may warrant trenching and/or drilling.

An extensive review of the many old exploration and production reports was conducted, to compliment the field program, and aid in formulating recommendations for further exploration.

The Author and Al Philipp, FGAC conducted general exploration over a portion of the project area; activities included prospecting, geological mapping, rock sampling & analyses, and geophysical reconnaissance traverses. The work was conducted between September 1991 and September 1992.

## SUMMARY

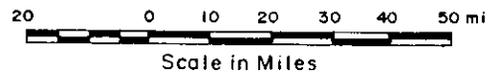
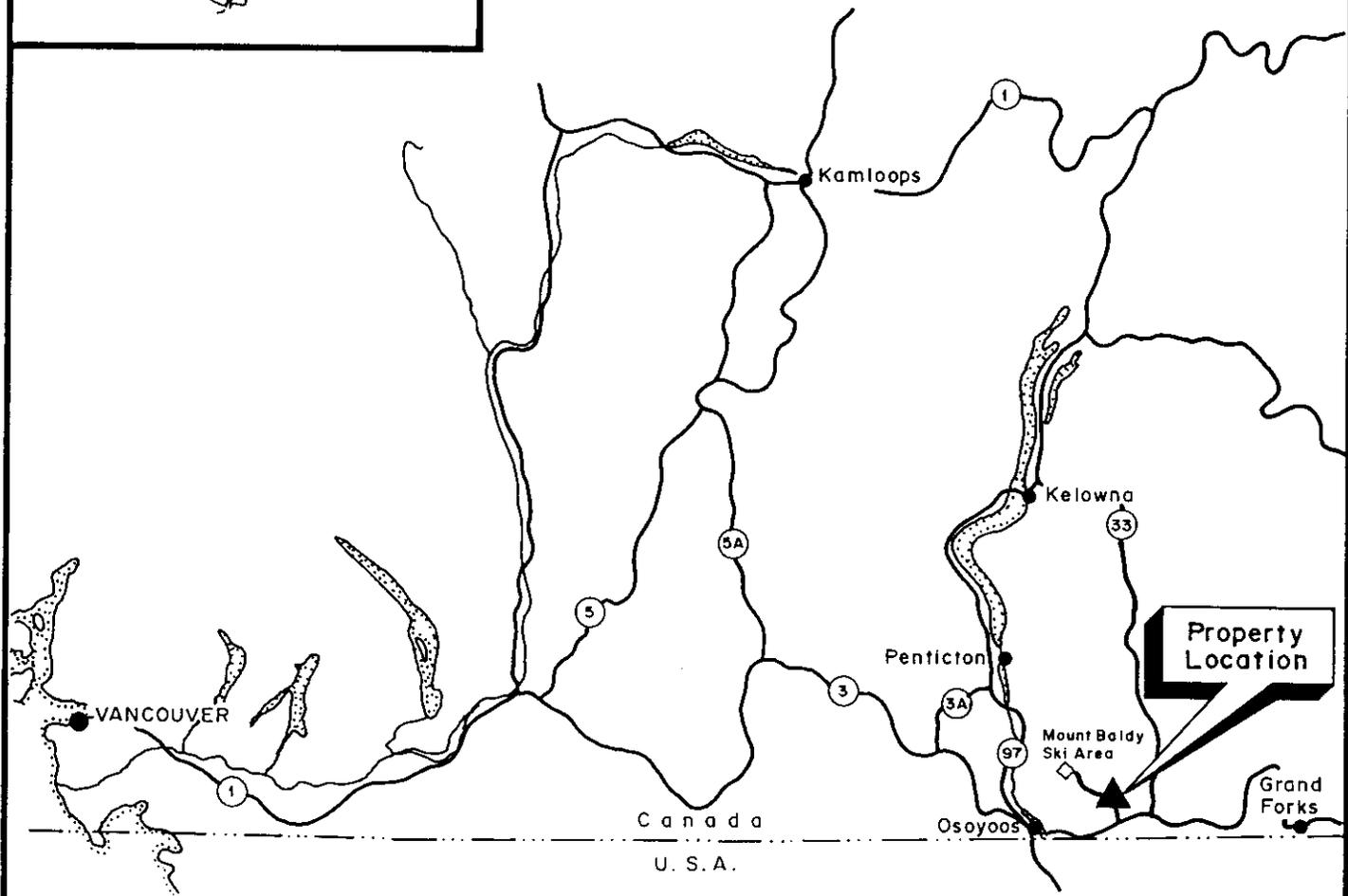
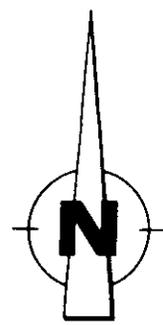
The Caramelia project, located at Camp McKinney near Bridesville, British Columbia, has a history of gold production and mineral exploration that dates to the 1880s. A review of old reports and a field program of prospecting, mapping and geophysics has resulted in the recommendation to diamond drill to test for extensions to the high-grade fissure veins and to test for larger tonnage, low-grade gold near intrusive contacts.

## PROPERTY INFORMATION, DESCRIPTION:

The property encompasses approximately 847 hectares contained within 34 mineral claims (61 units). McKinney Mines Corp. has acquired a 100% interest in the property subject to a 3% NSR. Five of the claims included above are under a long term mining lease from Teck Corporation, subject to a 3% NSR and a \$5,000 annual advance minimum royalty payment. An additional two claims noted above are under a long term mining lease from Bravo Resources Inc., subject to a 3% NSR, a \$2,500 annual advance minimum royalty payment, and annual exploration expenditure. In June 1992 three forfeited crown grants, formerly the Anarchist, Balmoral, and Dynamite claims, were staked.

## PROPERTY INFORMATION, GEOLOGY & MINERALIZATION:

The geology of the project area comprises a finely-banded "Anarchist" sedimentary series of quartzite, greenstone, argillite, and limestone. Much of the greenstone is a finely-banded carbonate rock identified as a calcareous tuff. A large body of granodiorite, which occupies the basin of McKinney Creek, is intrusive into the bedded series. Dyke rocks are



McKINNEY MINES CORP.		
CAMELIA PROJECT CAMP McKINNEY		
Property Location Map		
After	Scale as shown	Figure
Date March 1990	By	1

numerous and include: feldspar porphyry, granodiorite and diorite. Faulting of the area has been intense.

Mineral production has been confined to narrow fissure veins that strike westerly, dip very steeply south, and crosscut all rock types, commonly at a large angle. Small bodies of replacement and skarn type mineralization have been identified.

#### PROPERTY INFORMATION, PHYSIOGRAPHY:

The climate and topography are conducive to year-round development and operation. The property is situated on a gentle sloping bench with elevations increasing from southeast to northwest, ranging from 1275 metres on the southern boundary to 1375 metres on the northwestern boundary. The terrain is moderate to gentle over most of the property. The area of the claim block is primarily second growth pine and spruce. Recent, extensive logging has created good access to all parts of the property.

Average annual precipitation is 50 centimetres with accumulations of up to two and a half metres of snow in the winter months. The daytime temperature in summer averages 24 degrees, while the daytime temperature in winter averages minus 3 degrees.

A major powerline and natural gas pipeline traverse the property. Water is readily available.

Ample room exists on the property for construction of a processing plant and related infrastructure. However, ore could be transported to offsite milling facilities such as Beaverdell (Teck Corporation) or Battle Mountain Gold Company's proposed Crown Jewel gold mine and processing plant, which is 20 kilometres southeast of Camp McKinney.

#### PROPERTY INFORMATION, ACCESS:

The Caramelia project is located at Camp McKinney, at kilometre twelve on the all-weather Baldy Mountain Road, which joins Highway 3 five kilometres east of Bridesville. Bridesville is on Highway 3, thirty kilometres east of Osoyoos, British Columbia.

#### EXPLORATION HISTORY:

Production from the Cariboo-Amelia Mine, B.C.'s first dividend paying lode gold mine, commenced in 1894, with 87,200 ounces of gold being recovered from 121,800 tons of ore during the three main production periods of 1894 to 1904, 1943 to 1946, and 1960 to 1962. With recovered grades averaging 0.72 ounces per ton, past operations have been very profitable.

Since 1962 little work has been done except for some minor surface diamond drilling, soil geochemical surveys, VLF-EM surveys, and magnetic surveys.

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BN x 6W

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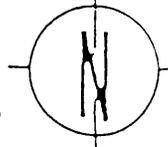
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1992 SURVEY AREA

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GOLDAURA  
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(1)

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MIC 4  
MIC 3  
MIC 2  
MIC 1

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ORIDE 1

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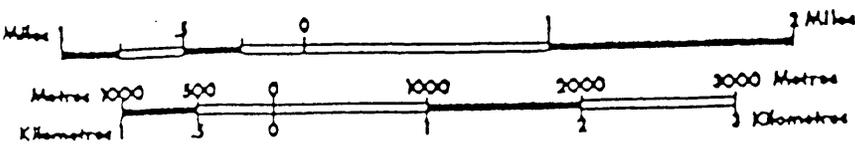
216202

216201

216200

JOLLY II  
3835 (8)  
48 x 5W

HY 4  
6230 (2)  
4N x 5W



MINERAL TITLE MAP  
PART OF 82E/03E  
CAMELIA PROJECT  
CAMP MCKINNEY  
MCKINNEY MINES CORP.

#### **CURRENT EXPLORATION PROGRAM, OBJECTIVE:**

The 1992 reconnaissance exploration program was designed to locate, on the ground, as much information on the historical surveys as possible, and to prospect areas recently opened-up by clear-cut logging. Definition of any old survey controls and rock types would aid in planning for trenching or diamond drilling of new or previously established targets.

Also, there are probably undiscovered extensions to the fissure veins (laterally, vertically, and parallel) as well as gold-in-skarn potential near intrusive contacts.

#### **CURRENT EXPLORATION PROGRAM, THEORY:**

There are several mineral exploration targets on the property, they include: (1) high-grade gold and silver in fissure veins, (2) replacement deposits of zinc, lead, silver and gold in calcareous rocks near shear zones and faults, and (3) gold rich skarns near intrusive stocks, dykes and sills.

Rocks in the area belong to the Anarchist group of sediments and locally predominate as impure quartzites, amphibolitic rocks and at least one outcropping band of intercalated limestone, striking northwesterly and dipping east. Overlying these are calcareous greenstones of the Kubau formation. These rocks were cut by later shear-controlled fissure veins containing much quartz, pyrite, gold and increasing amounts of sulfides at depth which caused problems with the recovery of gold. A centrally located parallel offshoot vein in the hangingwall contains much sphalerite and galena, and appears to have been only little explored. There are occurrences of younger dykes and possibly a larger body of intrusive granodiorite near Rice Creek, representing exploration targets along with the downward extension of the Cariboo-Amelia vein.

#### **CURRENT EXPLORATION PROGRAM, EQUIPMENT:**

Access to the property was by automobile. All traverses were conducted on foot. The only equipment utilized on the 1992 reconnaissance program was a Geometrics G816 proton magnetometer measuring total field magnetic intensity, in gammas.

#### **CURRENT EXPLORATION PROGRAM, PROCEDURES:**

All traverses were measured with compass and pacing, with reference to Forestry 1:20,000 scale "Forest Cover Map", for control and orientation. Several district lot corners (monument and steel pin) were located and served to enhance the survey control.

Mapping of outcrops was conducted with a view to determination of structure, rock types, alteration and mineralization.

The reconnaissance survey with the magnetometer was conducted to determine the

magnetic relief over an area that was near mineralized fissure veins and intrusive contacts, known as the "central zone". The survey was conducted with traverse closures and no reference base station. See Appendix A and B for magnetic survey results.

#### **CURRENT EXPLORATION PROGRAM, RESULTS:**

Almost all prior exploration survey stations have been obliterated by logging. However, some old roads and several drill sites were located.

Skarn was found to be present in the following locations: (1) on the Cariboo-Amelia mine dumps, (2) 200 meters of the 1960s shaft, in a surface trench, and (3) identified in diamond drill hole 1989-04. The skarn in (3) is the only skarn that returned anomalous concentrations of gold.

While "skarn" was not found elsewhere during this program, its existence on a larger scale is not ruled out in this thickly overburdened area.

#### **CURRENT EXPLORATION PROGRAM, DISCUSSION:**

There appears to be potential for vein and skarn mineralization in, and adjacent to, the historically productive "central zone" of the Cariboo-Amelia mine. This is an area that has a good mix of calcareous rocks and intrusives, as well as extensive structural complexity and known gold mineralization.

#### **CONCLUSIONS:**

There is very good potential for discovery of extensions to the existing high-grade Cariboo-Amelia vein, and possible economic gold in shoots within parallel veins.

Skarn has now been discovered in three locations on the property, this indicates that the potential does exist for larger bodies of skarn to be present and possibly be mineralized with gold.

#### **RECOMMENDATIONS:**

Bullion production was achieved in the past only from the high-grade Cariboo-Amelia vein which was opened up along its E-W strike for a length of 2,500 feet and to a maximum depth of 600 feet. The vein dips almost vertically, pinches and swells and was offset by many faults. No solid information exists on the nature of the fault-related basement rock along the 600 level, neither do we have drill logs from the important 1934 surface diamond drilling by "Bralco" when 5 holes were put down on the south (hangingwall) side of the vein where intrusive granodiorite rock is seen to occur along Rice Creek and 700 feet due south of the 1960's shaft.

Diamond drilling is recommended along two north-south sections at Rice Creek and along the 1960's shaft section. Multiple overlapping holes on each section will explore for any skarn-type mineralization along intrusive lime-rich greenstone contacts and then should bottom below the down-dip projection of the Cariboo-Amelia vein with zinc-rich offshoots in it's hangingwall.

STATEMENT OF COSTS:

Mob/demob	\$ 400
Personnel (note 1)	3,750
Meals & accommodation	200
Equipment rental	75
Field supplies	50
Report preparation	325
TOTAL EXPLORATION EXPENDITURES	<u>\$4,800</u>

Note 1: John A. Chapman B.Sc., P.Eng., Mining Engineer, and Alfred J. Philipp, FGAC, geologist, conducted the field work.

STATEMENT OF QUALIFICATION:

I John Arthur Chapman of the City of Surrey, British Columbia, Canada hereby certify as follows:

I am a mining engineer residing at #30 1725 Southmere Cr., Surrey, British Columbia and,

I graduated with honours in Mining Technology from the British Columbia Institute of Technology, June 1967 and,

I graduated with honours in Mining Engineering (B.Sc.) from the Colorado School of Mines, January 1971 and,

I am a Professional Engineer registered in the Province of British Columbia since 1973 and,

I have practised my profession continuously since 1973 in Canada, United States and Philippines and,

I am the major shareholder in McKinney Mines Corp. and,

I am the author of this report, which is based upon work on the Caramelia project, which I personally conducted with Alfred Philipp, FGAC, Geologist, during 1992.



John Arthur Chapman, B.Sc., P.Eng.

## **APPENDIX A**

McKINNEY MINES CORP. - CAMELIA PROJECT  
 MAGNETIC SURVEY: MAY 1, 1992  
 INSTRUMENT: GEOMETRICS, MODEL G-816, PROTON MAGNETOMETER

LINE	STN	GAMMAS	TIME	COMMENTS
BASE STN AT MILL ROAD: 56803 @ 1500hrs				
ONE	0	56987	1507	EAST/WEST LINE, START AT WEST END
	10	56982		ALL DISTANCES IN METRES
	20	56940		
	30	56820		
	40	56850		
	50	56970		
	60	56810	1514	
	70	56900		
	80	56841		1900a GARBAGE DUMP
	90	56860		OLD LOG CABIN REMNANTS
	100	56890		
	110	56790		
	120	56780		
	130	56775		
	140	56770	1520	CL OF RICE CREEK
	150	56830		
	160	56780		
	170	56785		
	180	56815		
	190	56775		
	200	56783	1528	
	210	56790		
	220	56769		
	230	56800		
	240	56800		AT JNCT OF FOREST CMPST RD AND BALDY RD
	250	56850		
	260	56750		
	270	56766	1530	EOL AT CL OF BALDY RD, ADJ TO 1900 SHFT
TWO	0	56617	1544	LINE 75m SOUTH OF LINE 1, AZ TO WEST
	10	56826		
	20	56860		
	30	56840		
	40	56850		
	50	56745		
	60	56769		
	70	56760		
	80	56952		
	90	56978		
	100	56855	1555	
	110	56928		
	120	57032		
	130	56960		
	140	57014		CL RICE CREEK
	150	56870		
	160	56900	1605	AT TUNNEL LEVEL XCUT
	170	56860		
	180	56878		
	190	56880		CL ROAD TO MILL
	200	56795	1611	CK READ @ BS STN MILL: 56807 @ 1613
	210	56852		

	220	56943	
	230	56907	
	240	56886	
	250	56870	
	260	57016	
	270	56876	1621 EOL, OLD LOG BLD 40m TO SW
THREE	0	56860	1628 LINE 75m SOUTH OF LINE 2, AZ TO EAST
	10	56880	
	20	56790	
	30	56730	
	40	56725	
	50	56800	1635 GLORY HOLE 30m TO NORTH
	60	56831	
	70	56763	
	80	56858	
	90	56756	MILL 30m TO NORTH
	100	56911	
	110	56807	
	120	56836	
	130	56950	1647 CL RICE CREEK
	140	56864	
	150	56829	
	160	56760	
	170	56670	
	180	56771	
	190	56996	
	200	56989	
	210	56915	1659
	220	56954	
	230	57038	
	240	56749	
	250	56763	
	260	56855	
	270	56856	1705 EOL
FOUR	0	57010	1710 @ 20m NORTH OF LINE 2, AZ TO WEST
	10	57230	
	20	57400	CL RICE CREEK
	25	57934	1716 @ 5m NORTH = 58400
	30	56300	WHIM SHFT 10m TO NORTH
	40	56810	
	50	56907	1720 EOL

BASE STN AT MILL: 56807 @ 1725hrs

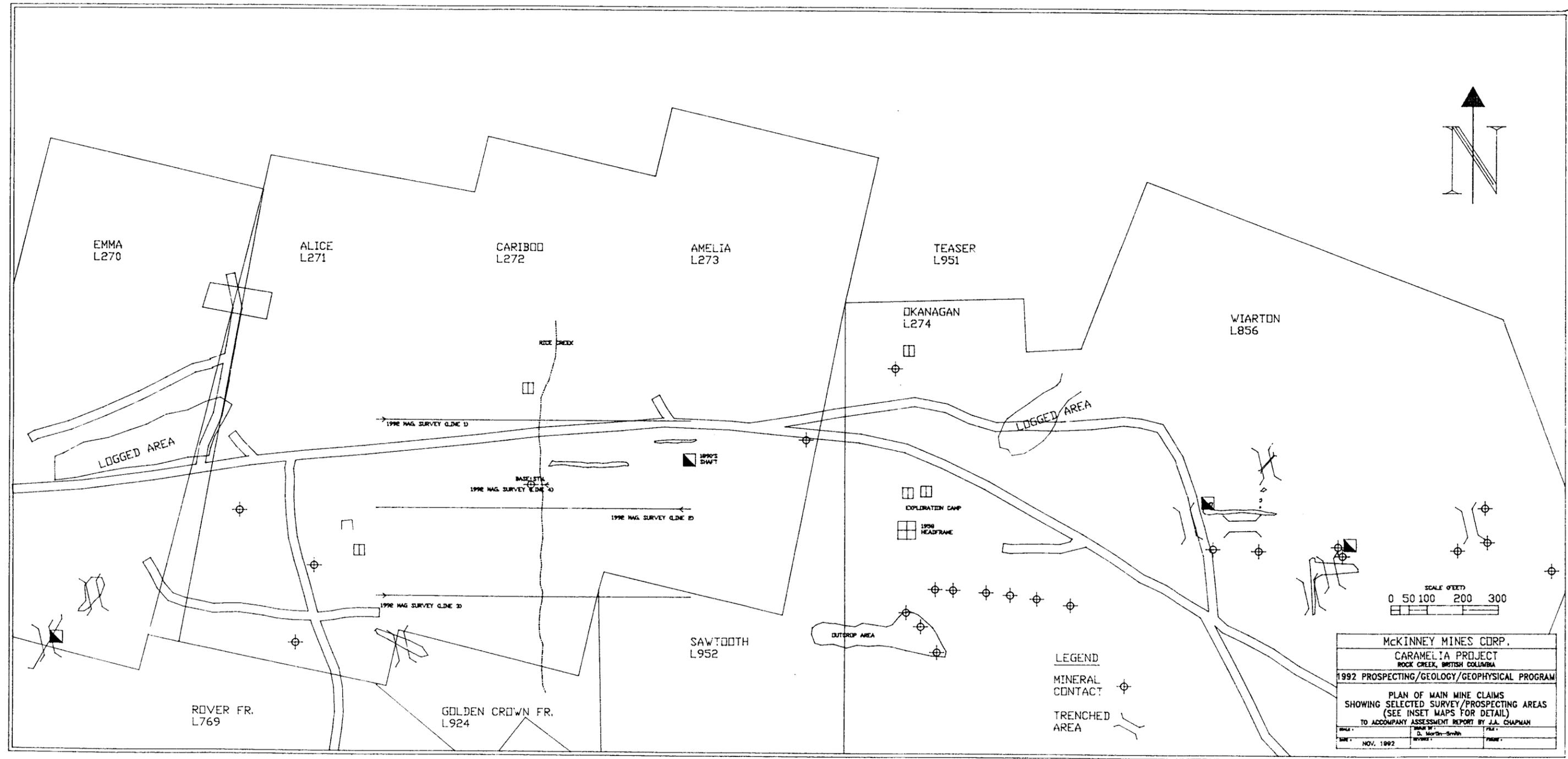
- NOTE: (1) The Geometric activity was very low at the time of the survey.  
The "drift" at the base stn. was only 4 gammas during the survey.  
Hence, no adjustment of field readings was necessary.
- (2) The survey start point is 30 meters north of the main road  
at a point 270 meters west of the main 1900s shaft.

## **APPENDIX B**

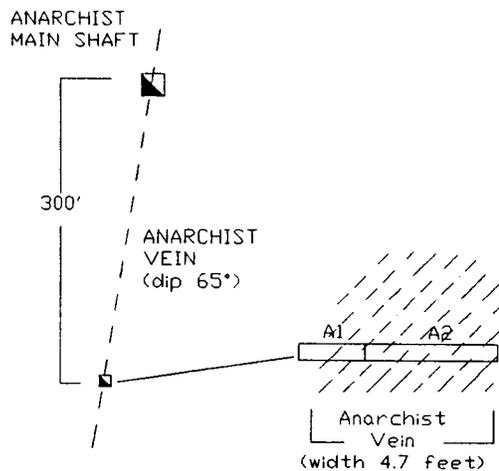
CARMELIA PROJECT, MAGNETIC SURVEY, 1992  
McKINNEY MINES CORP.  
TOTAL FIELD MAGNETICS (GAMMAS)  
REFERENCE GEOLOGY MAP FOR LOCATION OF MAG. GRID



## APPENDIX C



MCKINNEY MINES CORP.		
CARMELIA PROJECT		
ROCK CREEK, BRITISH COLUMBIA		
1992 PROSPECTING/ GEOLOGY/ GEOPHYSICAL PROGRAM		
PLAN OF MAIN MINE CLAIMS		
SHOWING SELECTED SURVEY/ PROSPECTING AREAS		
(SEE INSET MAPS FOR DETAIL)		
TO ACCOMPANY ASSESSMENT REPORT BY J.A. CHAPMAN		
DATE:	DRAWN BY:	FILE:
NOV. 1992	G. MacIsaac-Smith	



SAMPLE DESCRIPTION

CAR-92-A1

11 inch chip sample to east from west wall Granodiorite altered for first 2 inches, then well mineralized showing pockets of massive galena and some interstitial pyrite. Assays values returned: 432 ppb Au.

CAR-92-A2

4 foot chip sample from CAR-92-A1 to east wall Quartz vein containing rare specks of galena and pyrite Assay values: 1564 ppb Au.

SAMPLE LOCATION:

Southernmost Anarchist shaft.  
Chip sample taken 5 feet below surface across width of vein.

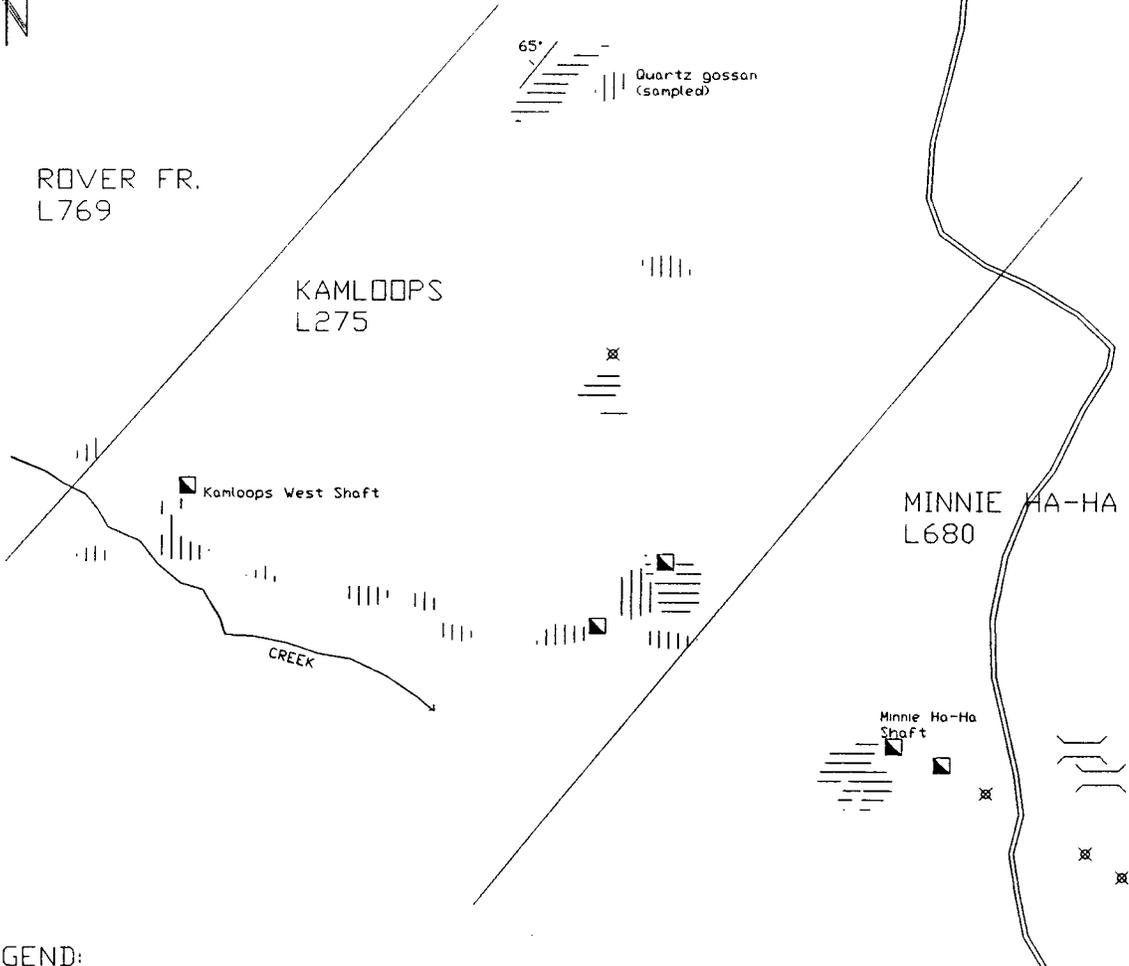
MCKINNEY MINES CORP.		
CAMELIA PROJECT ROCK CREEK, BRITISH COLUMBIA		
1992 PROSPECTING/GEOLOGY/GEOPHYSICAL PROGRAM		
ANARCHIST CLAIM (LOT 647) VEIN SAMPLING		
TO ACCOMPANY ASSESSMENT REPORT BY J.A. CHAPMAN		
SCALE :	VARIES	DRAWN BY :
DATE :	NOV. 1992	D. Martin-Smith
		REVISED :
		FILE :
		FIGURE :



ROVER FR.  
L769

KAMLOOPS  
L275

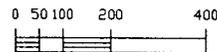
MINNIE HA-HA  
L680



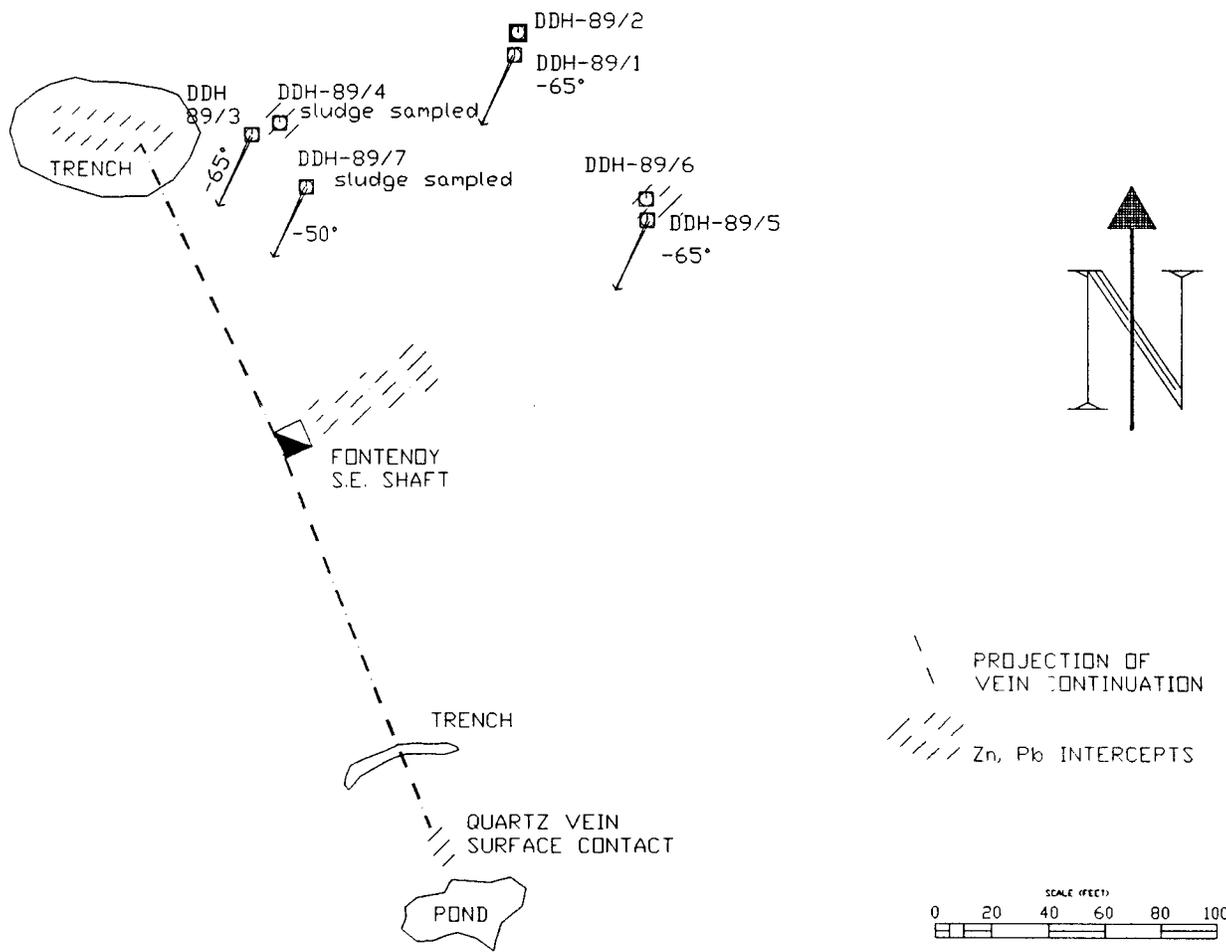
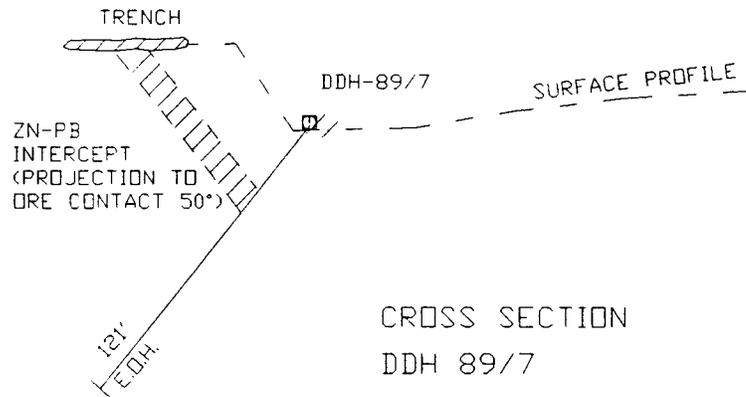
LEGEND:

- ROADS
- TRENCHES
- PITS
- SHAFTS
- QUARTZITE
- GREENSTONE

SCALE (FEET)



McKINNEY MINES CORP.		
CAMELIA PROJECT		
ROCK CREEK, BRITISH COLUMBIA		
1992 PROSPECTING/GEOLOGY/GEOPHYSICAL PROGRAM		
KAMLOOPS MINERAL CLAIM		
PROSPECTING		
AND GEOLOGY		
TO ACCOMPANY ASSESSMENT REPORT BY J.A. CHAPMAN		
SCALE:	AS SHOWN	DATE:
DATE:	NOV. 1992	REVISIONS:
	DMS	FIGURE:



MCKINNEY MINES CORP.		
CAMELIA PROJECT		
ROCK CREEK, BRITISH COLUMBIA		
1992 PROSPECTING/GEOLOGY/GEOPHYSICAL PROGRAM		
FONTENDY MINERAL CLAIM (LOT 752)		
DIAMOND DRILL COLLAR PLAN		
CROSS SECTION OF DDH 89/7		
TO ACCOMPANY ASSESSMENT REPORT BY J.A. CHAPMAN		
DATE:	DRAWN BY:	FILE:
NOV. 1992	CHS	

# McKinney Mines Corp.

Suite 902, 626 West Pender Street  
Vancouver, B.C., V6B 1V9  
Telephone: (604) 682-4700  
Facsimile: (604) 682-0606

COPY

Mr. Al Philipp  
#34 - 9107 62nd Avenue  
Osoyoos, B.C.  
VOH 1V0

April 18, 1992

Dear Al:

Thank you for the information you provided to Sandy. I will complete the Notice of Work showing a program start April 20th. Also, for your guidance, I have included notes on some of the known "targets" within the Caramelia project area, they include:

- N/S magnetic anomaly through Lots 270 and 271
- N/S magnetic anomaly on Lot 856, east of Warton Shaft
- Large circular VLF-EM conductor on Lot 270
- Zinc-in-soils anomaly at NW boundary of Lot 680
- Zinc-in-soils anomaly on Lot 275
- Diorite/greenstone contact near 1900 shaft, 0.09 opt Au (Yacoub)
- Large shear zone near Rice Ck (followed in FW Level 3, DDH-10 79)
- Mineralized argillites (graphitic?) on Fontenoy
- Gold in intrusives at Anarchist (Lot 647)

As we discussed, the old timers were seeking gold in quartz filled fissure veins, since then geophysics and soil geochemistry has been conducted over limited areas with little or no follow-up. We are now seeking primarily bulk tonnage low grade gold potential as replacements (skarns), geochemical traps (graphitic argillites), etc. However, if another high-grade gold shoot was discovered in one of the fissure veins we would be interested in exploring it further.

I have included some sheets for submitting samples to ACME for analysis.

GOOD LUCK!

Very best regards,



John A. Chapman  
President

encl.

John A. Chapman  
President - McKinney Mines Corp.  
902 - 626 West Pender Street  
Vancouver, B.C.

May 7, 1992

Dear John:

This letter will summarize and report on the progress of the assignment given to this writer to follow-up by geological reconnaissance, previous geophysical or other exploration work on the McKinney Mines property.

The purpose of this investigation was to see whether or not skarn systems could be identified which, by implication to any mineralized tonnage potential, could change the economic aspect of this former gold producer. Although the results of this investigation were affirmative in regard to skarn, its occurrence was found to be present only locally on the mine dumps and would not yet allow any speculation as to size or give promise to any mineralized body, at this time.

Other exploration targets specified in your April 18 letter were checked with the above in mind and while "skarn" was not found elsewhere, its existence is not ruled out in this thickly overburdened area.

#### Exploration Targets - Suggested and Checked

##### 1) N/S Magnetic Anomaly through Lots 270 and 271 (Work by Zuni)

This anomaly was caused by disseminations of very fine pyrrhotite and magnetite in an impure quartzite trending northerly from a trenched quartz vein running E-W. Other magnetic features in this area with mag reliefs of up to 1200 gammas above background are mostly covered by overburden or were identified as being related to culture (old objects of iron) or to large accumulations of porphyritic diorite boulders containing much magnetite.

The results from checking geophysical anomalies I have usually plotted on the same sheets and they will be given to you later, together with any other sketches.

##### 2) N/S Magnetic Anomaly on Lot 856, E. of Wiarthon Shaft

Zuni - This specific anomaly, detailed by J.C. cannot be explained. Large trenchings in deep overburden or even by an old deep pit into quartzite close by have not shed any light on the cause of it.

Some of the VLF conductors in this area have been trenched in bedrock and do show their relationships with graphitic quartzite. The E-W strike of these anomalies

is probably misleading as the instrument set-ups were reading on top of alternating bands of graphitic quartzite striking NW.

A mag anomaly between Lines 17E - 18E, 4+00S - 5+00S respectively, may be caused by a dike in contact with quartzite, but even at this contact the dike appears not to be magnetic.

Please note: The SW corner post of the "Last Chance" claim is plotted about 400 feet too far north on the Zuni map!

3) Large Circular VLF-EM Conductor on Lot 270 (Emma)

Zuni map. - This anomaly - direction is for real. An outcrop of greenstone contacts graphitic quartzite (with L270 survey pin) on Line 23W, 5 +50S. About 150 feet further along its SW strike there is a shaft with extending long trenches in both directions along the anomaly. Rock from the dump consists of rusty graphitic quartzite showing minor po, py and perhaps some magnetite; greenstone with calcitic argillaceous fault breccia and some graphite.

4) Zinc - in - Soils Anomaly at NW Boundary of Lot 680

Work by Sawyer - Yacoub. Outcrops appear to correlate poorly as to mapped geology and location. On the other hand, known and permanent topo features like Rice Creek or the N-S road from "Alice" claim south and already in existence for 100 years are not shown. This makes it difficult to precisely re-locate Zn and Pb anomalies on now non-existent 1981 picket lines.

5) Zinc - in - Soils Anomaly on Lot 275

Sawyer - Yacoub. This 560 ppm Zn and 217 ppm Pb anomaly correlates sufficiently well with the Kamloops E-shaft mine dump, which contains vein quartz showing disseminated sphalerite and galena.

6) Diorite - Greenstone Contact near 1900 Shaft, 0.09 opt Au

Yacoub - There is no reason to suspect the Au values of sample 51377 where plotted on his map (not where tabled), as this area is contaminated with auriferous material. As to where tabled, I have no way of telling where L10+00W was.

7) Large Shear Zone near Rice Creek (Followed in FW Level 3, DDH 10-79)

In my opinion, a different interpretation of this so-called shear zone is justified. As already mentioned, I think of this shear zone to represent the lower komatiitic basalt member in a distinct metavolcanic cycle, striking NW with easterly dips and

which originally included layers of mafic to intermediate flows with their associated tuffs, now impure quartzites. These rocks do not seem to be overturned. The former komatiitic "flow" reported to be from 50 - 100 feet wide is now altered to a tremolite - talc, quartz - ankerite - fuchsite assemblage and may have provided the primary source of the gold, while the intermediate metavolcanics lying east and up the volcanic pile may have supplied the primary Zn-Pb rich solutions for later depositions into the veins east of Rice Creek. This band of tremolite - talc rock crops out again in contact with quartzite and protected by it from erosion, in the bed of Rice Creek about 1000 feet south of the Whim Shaft and this helps to provide evidence with its continuity as an original flow together with the remnant serpentinized hairline "fractures" seen in dump material which could be original flow lines or being remnant spinifex which would denote the same: a flow.

A porphyritic diorite dike crops out south of the Whim shaft and there is some evidence for the existence of another intrusive opposite from it exposed under the roots of a blown-over tree. One or the other may account to have produced the skarn rock - magnetite, epidote - garnet skarn, on the dumps seen near the Whim shaft. The size of an assumed body would only depend on the size - degree of heat produced - from an intruding body into the carbonated komatiite or into other carbonaceous rocks.

As to the "Branch vein", recent checks of 1979 drilling, together with the location of a row of old pits south and parallel to the main vein appears to place this vein running parallel with the main vein along the south of it at a short distance and east of Rice Creek.

#### 8) Mineralized Argillites (graphite) on Fontenoy

After making a sketch of the 1989 drilling near the old SE shaft, it has now made me believe that the Zn - Pb - Au mineralization and in particular that found in Hole 1989-7 emanates from a thoroughly leached (box-work) large quartz vein seen in large chunks lying on the trenched outcrops NW of the shaft. This then would be the same quartz vein running at Az. 160 degrees through the shaft and on to the exposed white quartz vein lower down at the pond. (A sludge sample of 1989-7 hole was taken, its location was found).

The character of the quartz and host rocks seen on the dump of the Fontenoy NW shaft is quite different, there is more greenstone, altered dike rock, tremolite and associated material showing a little pyrrhotite which when tested with the powder, reacts weakly, but positively to "Ni".

#### 9) Gold in Intrusives at Anarchist (Lot 647)

In order to understand the mode of deposition of gold into the Anarchist quartz

veins in relation to its granodioritic hosts, the old southernmost shaft was covered with a crude platform and the vein was inspected and sampled across its total width of 4.7 feet, about 5 feet below surface.

The granodiorite along the veins west wall has suffered some alteration for about 2 inches from the vein, then the vein is mineralized across 8 inches with pockets of massive galena showing some interstitial pyrite. The rest of the quartz for the next 4 feet across only contains the rare speck of galena or pyrite.

Some traverses were also made in E-W fashion between McKinney Creek and another south flowing creek about 1500 feet to the west on the Mizzenmast claim. Nothing in the way of alteration or veins was seen on the few exposed outcrops of granodiorite.

A contact between granodiorite and quartzite shown on Hedley's map was checked in the creek bed south of the W-K power line. This revealed nothing of interest except that the quartzite was very impure at this location, which lies between the Anarchist and the Snowshoe claims.

Other checks were made into older trenched workings on the Wiarion, the newly staked Aurum Fr. and parts of the Last Chance claims, i.e. those long N - S trenches in rusty and graphitic quartzites. Nothing of interest in relation to skarn was seen there.

Respectfully submitted by:

Original signed by Al Philipp

McKINNEY MINES CORP.  
CAMELIA PROJECT  
APRIL 8, 1992

RE: ROCK SAMPLES FOR ANALYSIS AT ACME LABS.

ANALYSIS METHOD:

Geo 1: 30 element ICP + wet geochem Au (Special Exploration Package).

SAMPLE NUMBERS: (7 SAMPLES)

JAC-1, JAC-1C, JAC-2, JAC-3, 59132, 8-23-88(B), 8-25-88(E).

SAMPLE LOCATIONS:

JAC-1	Molson shaft dump, vein quartz
JAC-1C	Molson shaft dump, wallrock
JAC-2	Large dozer cut 40m west of Molson S.W. legal corner post, dyke contact zone (Rice claims?)
JAC-3	At boundary of L270/L271 on magnetic high just south of main Baldy road, pyrrhotite in silicified argillite (?).
59132	Skarn zone from DDH-4-89, took alternate samples from split core.
8-23-88(B)	Bravo trench now on Chico claim N.E. corner. Reference Bravo report by W.G. Hainsworth, 89/02/09
8-25-88(E)	See same Bravo reference

John A. Chapman  
J.A. Chapman Mining Services  
(604)682-4700, fax: (604)682-0606

## GEOCHEMICAL ANALYSIS CERTIFICATE

J.A. Chapman Mining Services PROJECT CAMELIA File # 92-0748

902 - 626 W. Pender St., Vancouver BC V6B 1V9



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au* ppb
JAC-1	1	1439	40	59	14.2	241	88	516	7.43	250	5	ND	1	113	.3	2	3	7	2.06	.008	2	15	.32	9	.01	2	.20	.01	.02	1	167
JAC-1C	1	42	2	79	.1	51	38	1218	6.81	37	5	ND	1	376	.2	2	2	46	4.71	.099	3	44	2.98	43	.02	2	1.22	.02	.17	1	2
JAC-2	7	155	2	94	.1	259	42	468	5.41	2	5	ND	1	44	.3	2	2	128	1.52	.196	7	307	2.02	209	.23	2	2.23	.06	1.07	1	3
JAC-3	1	40	3	135	.1	44	23	1197	7.36	5	5	ND	1	76	.2	2	2	71	1.56	.200	9	52	2.12	166	.06	2	2.39	.10	.21	1	6
59132	3	558	5	60	.5	67	28	4765	10.34	2	5	ND	1	136	.3	2	2	80	5.33	.061	2	6	.91	144	.08	2	1.57	.01	.43	1	535
8-23-88(B)	1	21	7	331	.1	11	9	1058	3.88	2	5	ND	8	30	2.1	2	2	47	1.58	.082	10	15	.87	132	.17	2	1.87	.12	1.00	1	3
RE 8-23-88(B)	1	21	4	319	.1	10	8	1000	3.63	2	5	ND	7	27	1.6	2	2	44	1.53	.077	9	13	.82	122	.17	2	1.76	.11	.97	1	2
8-25-88(E)	2	118	4	107	.1	75	19	270	4.81	2	5	ND	1	14	.3	2	3	93	.57	.119	7	116	1.60	99	.32	2	1.65	.11	.98	1	12

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB  
 - SAMPLE TYPE: ROCK AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: APR 9 1992

DATE REPORT MAILED: April 15/92

SIGNED BY.....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

AA  
LL

## GEOCHEMICAL/ASSAY CERTIFICATE

AA  
LL

J.A. Chapman Mining Services

File # 91-4252

902 - 626 W. Pender St., Vancouver BC V6B 1V9

submitted by: JOHN A. CHAPMAN

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	Hg	Au**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	%	ppm	ppb
JAC-MCTR1	1	495	9	57	.9	35	21	611	8.71	4	5	ND	16	29	.8	2	2	21	.61	.060	30	6	.72	14	.02	2	1.11	.04	.19	1	5	.001
JAC-MCOC1	3	108	6	4	.2	11	3	98	1.21	2	5	ND	1	5	.2	2	2	2	.08	.002	2	6	.03	50	.01	2	.05	.01	.02	1	15	.001
JAC-BR1	28	939	10423	1239	197.9	83	27	201	20.01	642	5	ND	3	13	46.9	129	56	4	.02	.002	2	114	.03	2	.01	2	.05	.01	.02	52	45	1.556
RE JAC-BR1	28	928	5163	1199	145.0	82	26	207	19.64	621	5	ND	2	11	44.5	127	56	4	.02	.004	2	104	.03	1	.01	2	.05	.01	.01	49	60	1.689

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB  
 - SAMPLE TYPE: ROCK HG ANALYSIS BY FLAMELESS AA. AU\*\* BY FIRE ASSAY FROM 1 A.T. SAMPLE.  
 Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: SEP 9 1991

DATE REPORT MAILED:

Sept 17/91

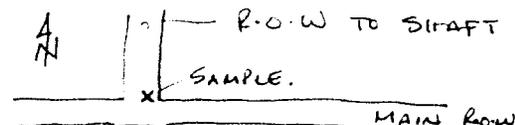
SIGNED BY: D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

CAMP MCKINNEY

JAC-MCTR1: FROM LARGE TRENCH ABOUT 600' SOUTH OF 1960S HEADFRAME - WEST SIDE OF RIGHT-OF-WAY. 12' DYKE WAS SAMPLED.

JAC-MCOC1: FROM OUTCROP (OR LARGE FLOAT) AT INTERSECTION OF MAIN POWER LINE RIGHT-OF-WAY AND RIGHT-OF-WAY TO 1960'S SHAFT.

VERY INTERESTING LOOKING BODY OF QUARTZ WITH ABUNDANT PIRITE.



NOTE: SAWYER CONSULTANTS IDENTIFIED A Pb/Zn SOIL ANOMALY NEAR HERE IN 1981 SEE REPORT SEPT. 81.

Chapman  
 Sept 17/91

McKINNEY MINES CORP.  
CAMELIA PROJECT  
MAY 2, 1992

RE: ROCK SAMPLES FOR ANALYSIS AT ACME LABS.

ANALYSIS METHOD:

Geo 1: 30 element ICP + wet geochem Au (Special Exploration Package).

SAMPLE NUMBERS: (5 SAMPLES)

CAR-92-111, CAR-92-A1, CAR-92-A2, CAR-92-AP1, CAR-92-AP2

SAMPLE LOCATIONS:

CAR-92-111	Skarn from mill dump at Rice Ck.
CAR-92-A1	Anarchist shaft vein chip sample (11inch. west wall)
CAR-92-A2	Anarchist shaft vein chip sample (4ft. from CAR-92-A2 to east wall)
CAR-92-AP1	Sludge, BQ core hole just east of old (1900) main shaft dump, hole azimuth n30e, dip 60d
CAR-92-AP2	Sludge, BQ core hole just east of old (1900) main shaft dump, hole azimuth n15w, dip ?

NOTE TO ACME: PLEASE DO YOUR PLATINUM GROUP GEOCHEM ALSO ON CAR-92-111

John A. Chapman  
J.A. Chapman Mining Services  
(604)682-4700, fax: (604)682-0606

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE(604)253-3158 FAX(604)253-1716



## GEOCHEMICAL ANALYSIS CERTIFICATE



J.A. Chapman Mining Services PROJECT CAMELIA File # 92-1040 Page 1

902 - 626 W. Pender St., Vancouver BC V6B 1V9

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	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	Au* ppb
CAR-92-A1	61	260	26210	1283	215.7	9	1	99	1.03	2	6	ND	4	3	14.5	13	651	7	.02	.005	3	43	.01	15	.01	2	.16	.01	.08	1	432
CAR-92-A2	47	19	830	28	44.8	8	1	111	.58	2	5	ND	1	1	.4	2	35	4	.01	.003	2	10	.01	9	.01	2	.06	.01	.03	2	1564
CAR-92-AP1	3	132	40	164	1.1	89	34	1023	6.04	24	5	ND	3	152	.2	3	2	72	3.93	.184	11	63	2.59	229	.21	5	2.69	.09	.42	63	23
CAR-92-AP2	6	94	234	178	3.5	75	31	996	6.08	27	5	ND	7	315	1.5	5	2	58	12.37	.195	11	60	1.99	67	.11	6	2.26	.04	.35	92	36
RE CAR-92-A1	63	274	26177	1316	198.7	8	1	96	1.05	5	6	ND	4	4	15.1	14	668	8	.02	.006	3	45	.01	16	.01	2	.17	.01	.09	1	456

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB  
 - SAMPLE TYPE: ROCK AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: MAY 12 1992

DATE REPORT MAILED: May 20/92

SIGNED BY.....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS



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	Au**	Pt**	Pd**
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb	ppb	ppb
CAR-92-111	1	47	19	57	.5	104	30	935	5.07	4	5	ND	11	684	.3	2	2	84	4.63	.327	102	67	4.01	626	.21	2	2.15	.11	1.06	1	12	4	3
RE CAR-92-111	1	47	12	59	.5	108	31	962	5.22	4	5	ND	13	707	.5	2	2	87	4.81	.335	105	69	4.14	628	.21	2	2.21	.12	1.10	2	-	-	-

Sample type: ROCK. Samples beginning 'RE' are duplicate samples.  
 GEOCHEM AU PT & PD BY ICP/GRAPHITE FURNACE (10 gm)

## APPENDIX D



ASSAYS

DB 7/28/92

JOHN: 

July 21, 1992

FILES . CROWN RES;  
CARAMELIA ASSAY.

Mr. J. Chapman  
McKinney Mines Corporation  
626 West Pender Street  
Suite 902  
Vancouver, B.C.  
CANADA  
V6B 1V9

Dear John,

Enclosed is a copy of the analytical results from our visit to your Caramelia property back in April. Sample locations have also been plotted but note that the Emma site is an approximation.

- 1) 92-MS-5837 Fontenoy Claim
  - composite rock chip from dump and bedrock adjacent to Fontenoy decline
  - sample material comprised of quartz veinlets in sheared and graphitic argillite
  
- 2) 92-MS-5838 Emma Claim
  - composite bedrock and trench material
  - trench corresponding to a VLF conductor marking the contact between volcanics and sediments
  - sample material comprised of foliated and graphitic argillite with banded pyrite and disseminated pyrrhotite(?)

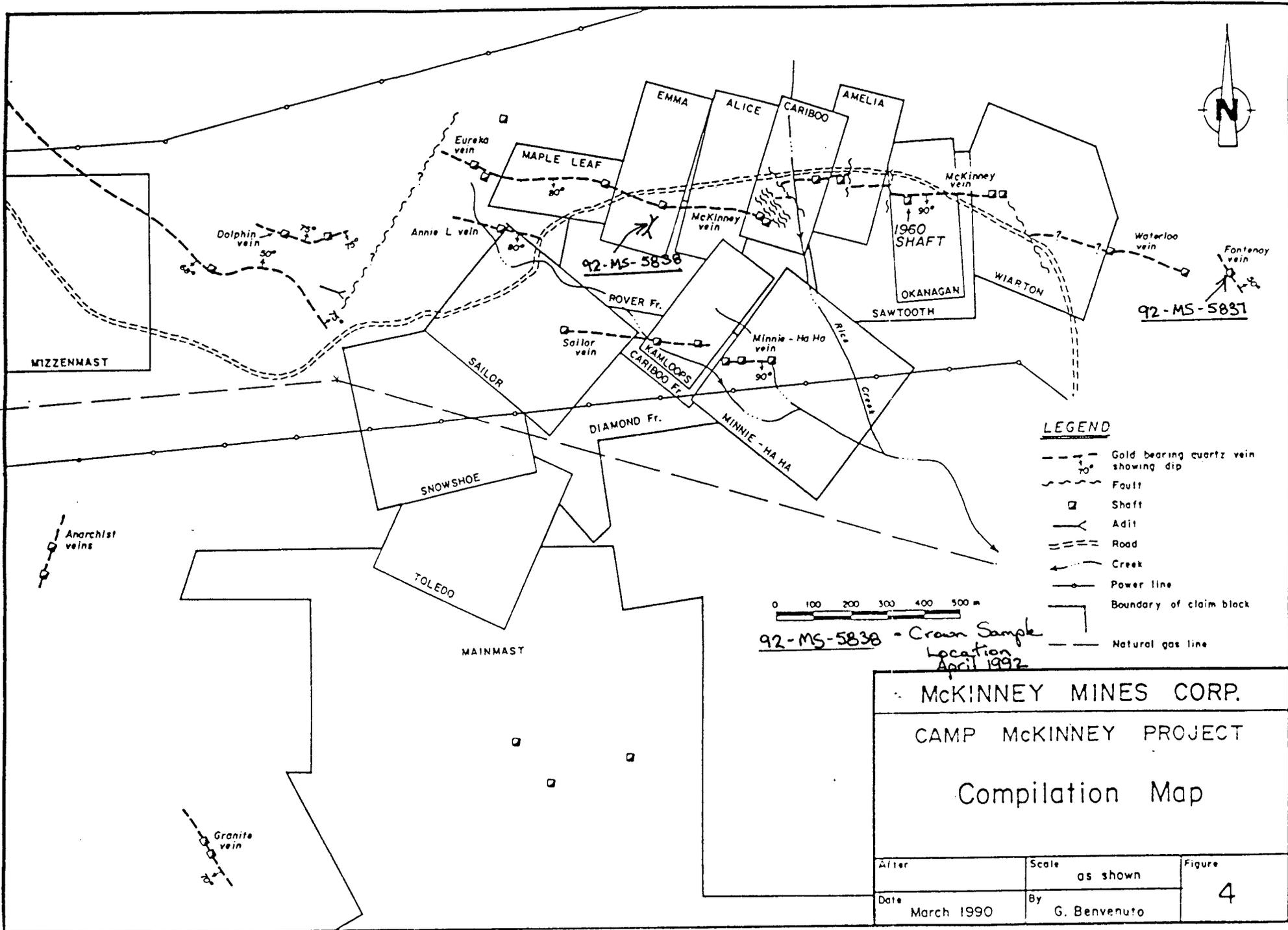
As we get the opportunity for additional visits to your area we will keep you informed. I hope you will find these assays useful.

Sincerely,



Myron Sawiuk  
District Geologist

2020 Oroville-Toroda Creek Road  
Star Route 85  
Oroville, Washington 98844  
Telephone 509-485-3506  
Fax 509-485-3507



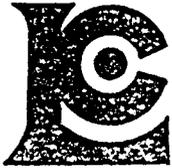
**LEGEND**

- - - Gold bearing quartz vein showing dip
- ~ ~ ~ Fault
- Shaft
- └ Adit
- == Road
- ┌ Creek
- Power line
- ┌ Boundary of claim block
- - - Natural gas line

0 100 200 300 400 500 m

92-MS-5838 - Crown Sample Location April 1992

McKINNEY MINES CORP.		
CAMP MCKINNEY PROJECT		
Compilation Map		
After	Scale as shown	Figure <b>4</b>
Date March 1990	By G. Benvenuto	



# Chemex Labs Ltd.

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

To: CROWN RESOURCE CORPORATION  
SEVENTEENTH STREET PLAZA  
1225 17TH ST., STE. 1500  
DENVER, COLORADO  
80202

Page Number :1-B  
Total Pages :1  
Certificate Date: 08-JUL-92  
Invoice No. :19217055  
P.O. Number :9355  
Account :JXX

Project :  
Comments: ATTN: C. HERALD CC: R. MILLER CC: J. SHANNON CC: M. SAWIUK

## CERTIFICATE OF ANALYSIS

### A9217055

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
92-MS-5837	205	226	1	< 0.01	14	250	1970	4	1	39	< 0.01	< 10	< 10	6	< 10	2210
92-MS-5838	205	226	< 1	0.02	31	650	12	< 2	3	56	0.18	< 10	< 10	71	< 10	64

CERTIFICATION:

*Phai D'Ma*

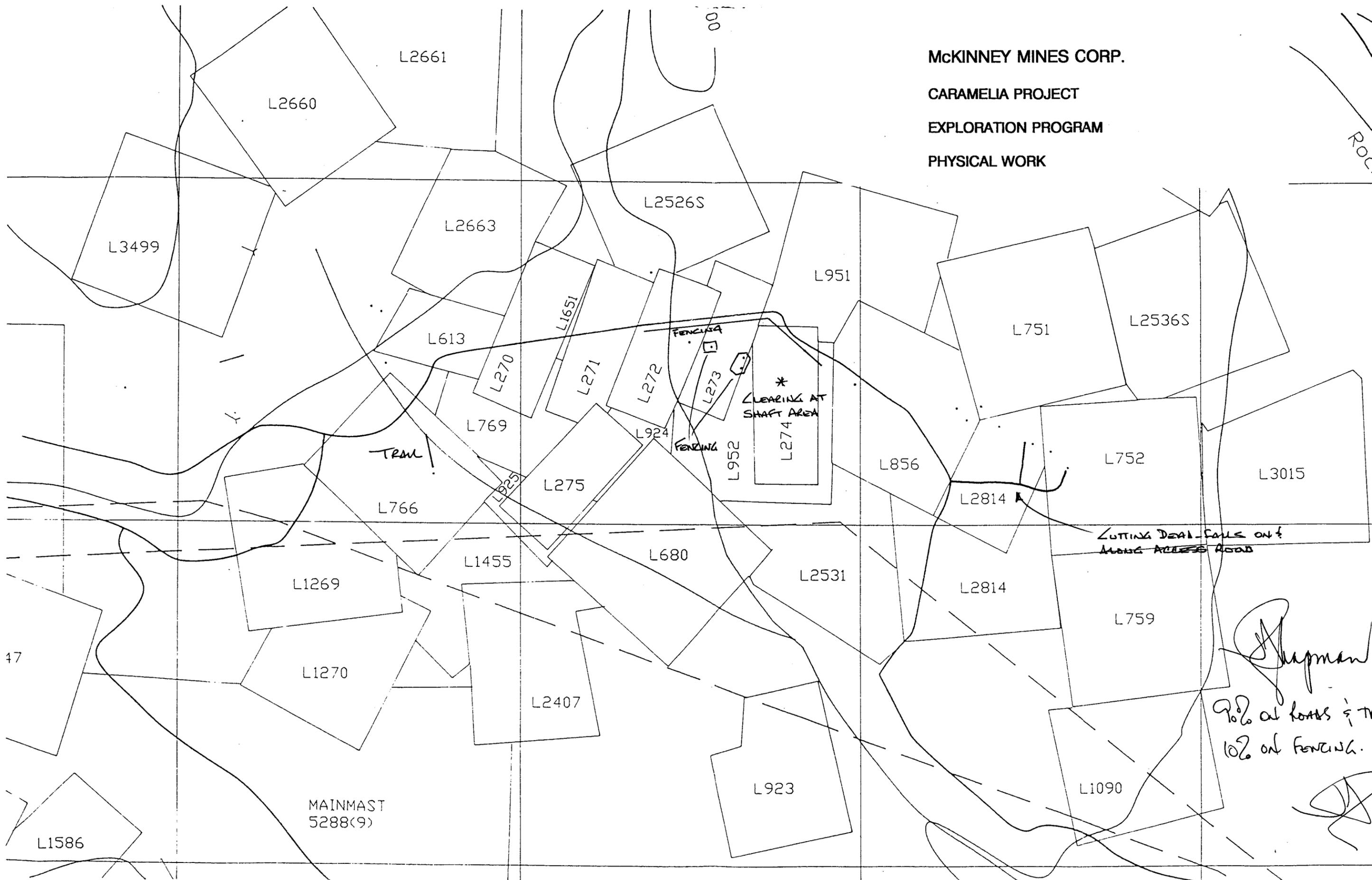
McKINNEY MINES CORP.

CAMELIA PROJECT

EXPLORATION PROGRAM

PHYSICAL WORK

ROC.



47

*Shyman*  
 90% of roads & TRAMS  
 10% of FENCING.



**STATEMENT OF COSTS - PHYSICAL ASSESSMENT WORK  
STATEMENT # 3023957**

**STATEMENT OF COSTS:**

Mob/demob	\$ 280	
Personnel (Note 1)	1,100	
Meals/Accommodation	120	
	<hr/>	
<b>TOTAL EXPENDITURES</b>		<b>\$1,500</b>

Note 1: John A. Chapman, P.Eng., (3 days X \$150), Fred J. Sveinson, P.Eng. (2 days X \$150), David Martin-Smith, (1 day X \$150), Sandy Sveinson (2 days X \$100)