

ARIS SUMMARY SHEET

District Geologist, Kamloops

Off Confidential: 89.12.09

ASSESSMENT REPORT 18655

MINING DIVISION: Kamloops

PROPERTY: Maid
LOCATION: LAT 50 57 00 LONG 121 31 00
UTM 10 5645093 604197
NTS 092I13E
CLAIM(S): Maid 1-2
OPERATOR(S): MacDonald, A.J.
AUTHOR(S): Wynne, F.L.
REPORT YEAR: 1989, 17 Pages
KEYWORDS: Cache Creek Group, Cretaceous, Chert pebble conglomerate
Marble Canyon Formation
WORK
DONE: Geochemical
HMIN 10 sample(s) ;ME

LOG NO: 0420	RD.
ACTION:	
FILE NO:	

GEOCHEMICAL ASSESSMENT REPORT
ON THE
MAID 1 AND MAID 2 MINERAL CLAIMS
KAMLOOPS MINING DIVISION
BRITISH COLUMBIA

FILMED

NTS: 92I/13E
Latitude: 50°57'N
Longitude: 121°31'W
Owner: Alexander J. MacDonald
Consultant: Discovery Consultants
Author: F.L. Wynne
Date: April 13, 1989

GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,655

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ANALYTICAL PROCEDURES
ANALYTICAL RESULTS, Heavy Mineral Samples MC-72 to MC-81
HEAVY MINERAL SEPARATION RESULTS

SUMMARY

The Maid property comprises two grid claims totalling 36 units located about 20 km northwest of Cache Creek, B.C., which were acquired by Mr. Alexander J. MacDonald in 1988 by staking.

The area is underlain by Cretaceous chert pebble conglomerate lying in a graben surrounded by rocks of the Permian Cache Creek Complex.

Gold was first reported to occur in these conglomerates in the 1901 Report of the Minister of Mines of B.C., and a moderate amount of exploration in the area has been reported in Government and assessment reports since that time.

Mr. MacDonald conducted a regional heavy mineral stream sediment survey in the area in 1987, and followed this work with a detailed survey on the claims in late 1988.

This follow up work has confirmed a source of gold in the conglomerate on the claims, and an exploration program of soil sampling and geological mapping is recommended.

INTRODUCTION

The Maid Property is owned by Mr. Alexander J. MacDonald and comprises two Grid claims totalling 36 claim units located about 20 km northwest of the town of Cache Creek, in Southwestern B.C. The claims were acquired by staking in early 1988. They cover the catchment basins of two small creeks which were highly anomalous in gold in a heavy mineral survey done in the area in 1987. The subject of this report is ten follow-up heavy mineral samples taken in the anomalous catchments in November, 1988.

LOCATION AND ACCESS

The Maid Property is located in the valley of Maiden Creek in Southwestern British Columbia, about 20 km on azimuth 318° northwest of the town of Cache Creek.

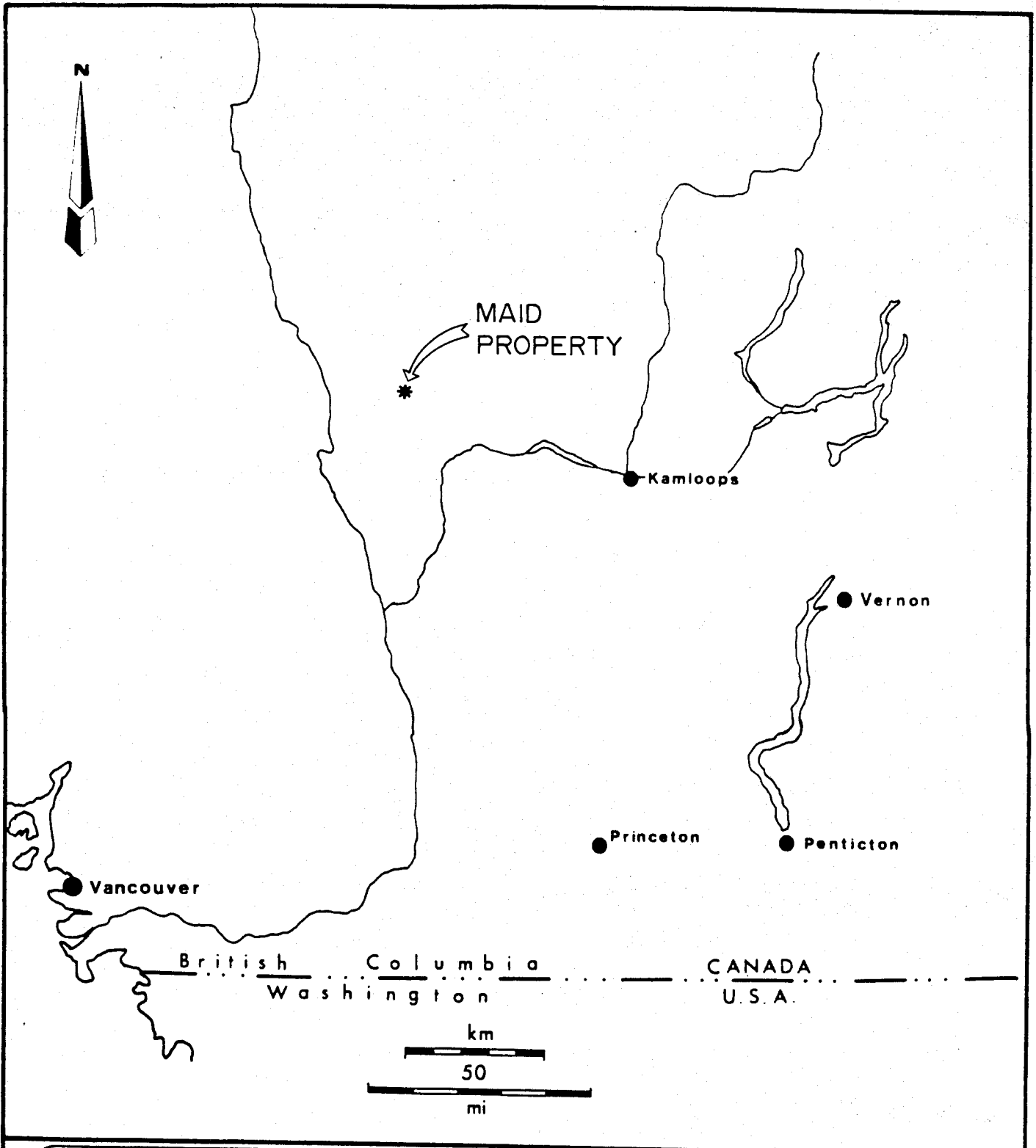
The common Legal Corner Post of the two claims is located at UTM co-ordinates 5646000N, 604000E, latitude 50°57.5' North and longitude 121°31.0' West. The National Topographic System map reference is 92I/13E and the elevation of the Legal Corner Post is 915 m (3000 ft) a.s.l.

Access to the property from Cache Creek is north on Highway 97 to the Maiden Creek logging road, which branches off 97 to the south at a point 4.4 km north(west) of the bridge carrying Highway 97 over the Bonaparte River. From the highway, one follows the logging road 5.1 km to a left fork that crosses Maiden Creek. This junction is located in the northwest corner of the claim block, and the roads on the south and east side of the creek access all parts of the claims.

CLAIMS

The property consists of 2 located metric grid claims, comprising a total of 36 units, in the Kamloops Mining Division. The following table lists the pertinent information on the claims.

<u>Claim Name</u>	<u>Record Number</u>	<u>Expiry Date</u>
MAID 1	7449	January 19, 1989
MAID 2	7450	January 19, 1989



DISCOVERY Consultants

A.J. MacDonald

MAID PROPERTY

LOCATION MAP

DATE: APRIL 13/1989

PROJECT: 338

SCALE: as shown

N.T.S.: 92-1/13, 1/14

M.D.: KAMLOOPS

FIGURE: 1

HISTORY

The 1901 Annual Report of the B.C. Minister of Mines mentions a discovery of gold-bearing ore on Maiden Creek. This discovery was reported to be a yellowish white quartz conglomerate carrying very fine particles of native gold.

An area just north of the present claims was known as the Beatrice (Maiden Cr. AV) and described in BCDM Bull. 1 (1932) p.71. Later geochemical surveys in the area are described in Assessment Reports 4304 (1973) and 7063 (1978).

The current property owner conducted a reconnaissance heavy mineral survey in the area in 1987 and acquired the claims by staking in early 1988. Follow-up heavy mineral sampling, the subject of this report, was done in November 1988.

GEOLOGY

The geology of the region is mapped on Geological Survey of Canada Open File 980. At the latitude of the property this map shows a graben structure filled with chert pebble conglomerates of Cretaceous age, bounded on the east by Cache Creek Complex volcanics and on the west by carbonates of the Cache Creek Complex, Marble Canyon Formation.

The property has not been mapped in detail, but it is known to be underlain in large part by the conglomerate.

GEOCHEMISTRY

A total of ten heavy mineral samples was taken at about 500 metre intervals on each of the two small creeks that were known to be highly anomalous from previous sampling.

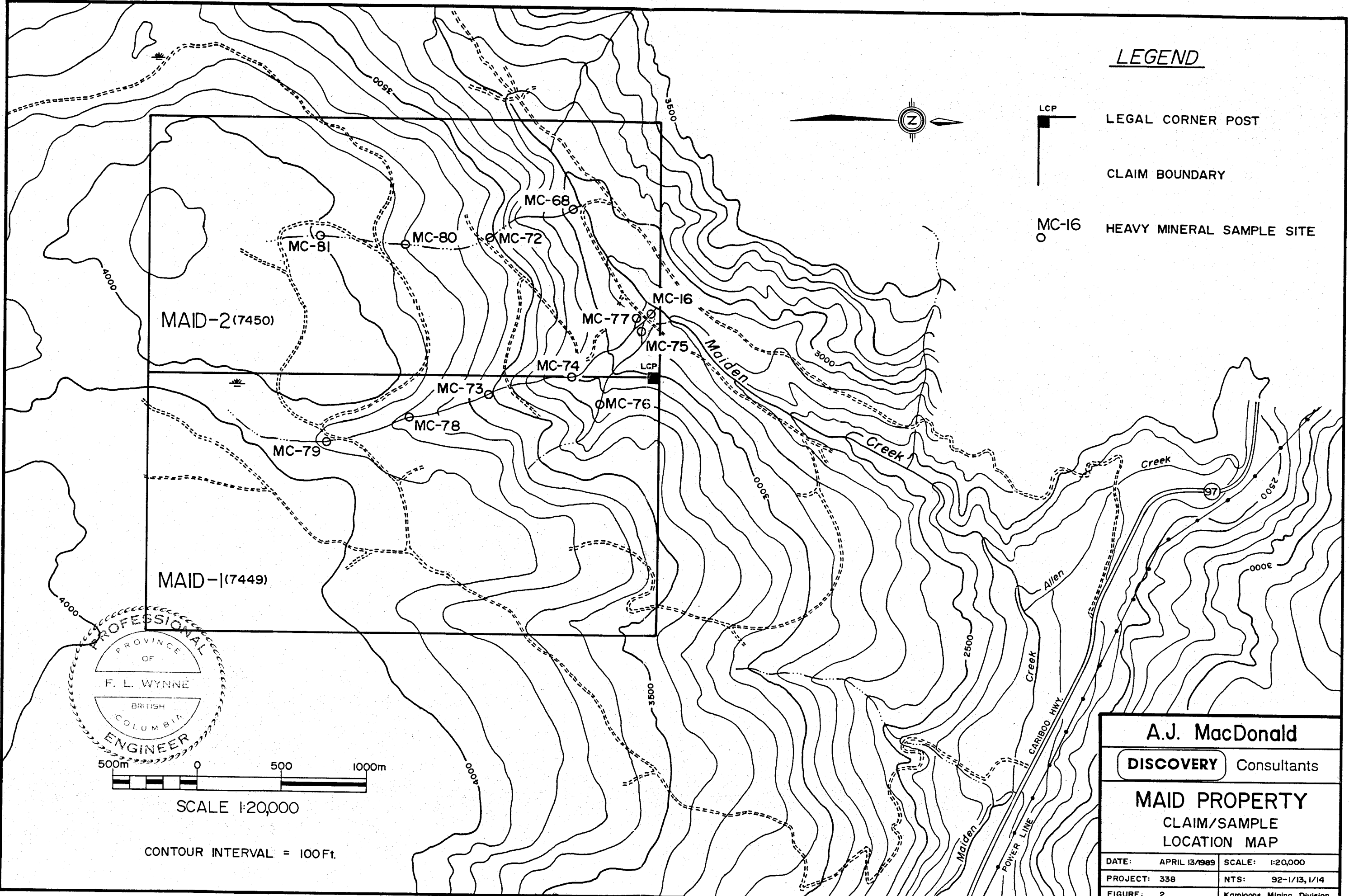
Heavy mineral samples are wet sieved in the field to collect approximately 10 Kg of -20 mesh material from the active stream sediment. The -20 mesh sample is sent to C. F. Mineral Research Ltd. in Kelowna, B.C., where it is further sieved and processed through heavy liquids to separate the -150HM, -150HP and -150HN fractions. The -150HN (-150 mesh heavy, non-magnetic) fraction is then sent to Nuclear Activation Services Limited in Hamilton, Ontario for analysis. Analytical results, analytical methods and the results of the heavy mineral separation process for all samples are presented in Appendix A.

DISCUSSIONS OF RESULTS

Samples MC-16 and 68 from the reconnaissance sampling phase had returned 41,000 and 22,000 ppb Au in the -150 mesh HN fraction. These are strongly anomalous based on a regional background for samples of this type in southern B.C. of less than 1000 ppb Au.

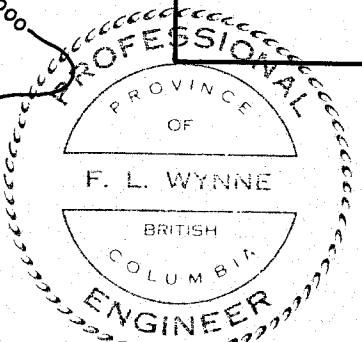
Follow-up samples MC-72, 80 and 81 were taken upstream from MC-16 and they returned 25,000, 15,000 and 15,000 ppb Au respectively. This stream is highly anomalous throughout its 1.5 km length and appears to indicate either a gold source near its headwaters, or perhaps a number of smaller sources along its length.

Samples MC-73 to 79 follow up the creek above MC-16. This creek has been re-eroding its own alluvial fan at its junction with Maiden Creek, resulting in poorly defined drainage channels, and during follow-up it was discovered that MC-16 had been taken in one of many discontinuous side channels in the fan. In spite of this, the follow-up results above the fan indicate a moderate anomaly with a good upstream cut-off. These values, along with the 11,000 ppb value in MC-76 from an east fork of the creek near the bottom, seem to indicate a gold source in the lower half of the creek.



LEGEND

- LCP LEGAL CORNER POST
- CLAIM BOUNDARY
- MC-16 HEAVY MINERAL SAMPLE SITE



SCALE 1:20,000

CONTOUR INTERVAL = 100ft.

A.J. MacDonald	
DISCOVERY Consultants	
MAID PROPERTY CLAIM/SAMPLE LOCATION MAP	
DATE: APRIL 13/1989	SCALE: 1:20,000
PROJECT: 338	NTS: 92-1/13, 1/14
FIGURE: 2	Kamloops Mining Division

CONCLUSIONS AND RECOMMENDATIONS

Follow-up heavy mineral sampling in two short creeks draining the Maid claims seems to point to a source of gold in Cretaceous chert pebble conglomerate on the southwest side of Maiden Creek.

Incomplete geological data suggests that the eastern margin fault of the graben that hosts the conglomerate should pass through the claims in the vicinity of the upstream cut-off of the geochemical anomalies.

This presents interesting potential for a gold deposit related to probable Tertiary igneous activity localised by the fault, and it should be further explored.

The next stage of exploration on the property should start with soil sampling and geological mapping on a grid, and this could be followed by a later program of trenching or drilling as warranted. IP surveys might prove useful at the pre-drilling stage.

STATEMENT OF COSTS

Professional Services

F.L. Wynne, P.Eng. supervision & reporting
2 days @ \$450/day \$ 900.00

Personnel

Drafting 2.5 days @ \$288/day \$720.00
Heavy mineral sampling
November 14, 15, 16, 1988
B. Carr 2.5 days @ \$216 540.00
J. Osterhagen 3 days @ \$256 768.00
2,028.00

Expenditures & Disbursements

Food & lodging 189.49
Field supplies 11.65
Equipment rental 50.00
Transport
4 days @ \$40/day \$160.00
274km @ \$0.37/km 101.38
586 @ \$0.30/km 175.80
gas 74.50

511.68
Secretarial, printing, copying 100.00
862.82

Heavy Mineral Analysis

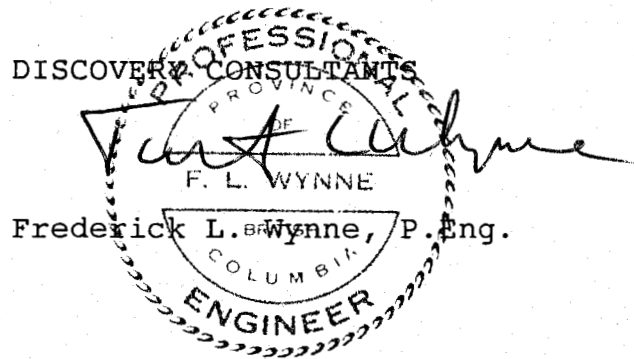
Sample Preparation
10 samples @ \$71.45 714.50
19 elements analysed
10 samples @ \$25.00 250.00
964.50

Total \$4,755.32

CERTIFICATE

I, Frederick L. Wynne, DO HEREBY CERTIFY THAT:

- 1.) I am a geologist associated with Discovery Consultants, 205-2900 30th Avenue, Vernon B. C.
- 2.) I am a graduate of the University of Alberta at Edmonton, Alberta, B.Sc. 1964, and a member of the Association of Professional Engineers of British Columbia. I have practised my profession of Exploration Geologist for over 24 years.
- 3.) I am the author of this report, which is based on a personal examination of the Property, on personal supervision of the work reported, and on a review of available literature.



Vernon, British Columbia
April 13, 1989

APPENDIX A

NUCLEAR ACTIVATION SERVICES LIMITED

1280 MAIN STREET WEST, HAMILTON, ONTARIO, L8S 4K1

PHONE (416) 522-5666

TELEX 06-986947

Certificate of Analysis FEB 01 1989

To:
DISCOVERY CONSULTANTS
Attn: W. GILMOUR
205-2900 30TH AVENUE
VERNON, BRITISH COLUMBIA
VIT 2B7

Client # 189/01/01

Date Submitted
19-DEC-88

Report: 10613

File number: 12318

12 PREPARED SAMPLES

CUST. REF# CFM 88-673

were analyzed as follows:

elements	detection limit	units	method	elements	detection limit	units	method
AG	0.5000	PPM	DCP	PB	2.0000	PPM	DCP
AS	1.0000	PPM	INAA	SB	0.2000	PPM	INAA
AU	5.0000	PPB	INAA	SC	10.0000	PPM	INAA
BA	300.0000	PPM	INAA	TA	10.0000	PPM	INAA
	100.0000	PPM	INAA	TH	10.0000	PPM	INAA
CR	0.0500	%	INAA	U	2.0000	PPM	INAA
CU	0.5000	PPM	DCP	W	10.0000	PPM	INAA
FE	5.0000	%	INAA	ZN	0.5000	PPM	DCP
HG	5.0000	PPB	WET	LA	10.0000	PPM	INAA
MO	5.0000	PPM	INAA				

DATE 25-JAN-89

NUCLEAR ACTIVATION SERVICES

Certified by L. Blackwood

*** Unless instructed otherwise we will discard ALL samples ***
Irradiated samples after 30 days, any other material after 120 days

NUCLEAR ACTIVATION SERVICES LIMITED FEB 01 1989

DATE: 25-JAN-89

REPORT: 10613

FILE NUMBER: 12318

PAGE: 1

S A M P L E N U M B E R S

ELEMENT & UNITS	!	204R MC**	205R MC**	206R MC**	207R MC**	208R MC**	209R MC**
	!	-72-150HN**	-73-150HN**	-74-150HN**	-75-150HN**	-76-150HN**	-77-150HN**
AG	PPM	4.0	1.5	0.5	0.5	1.0	0.5
AS	PPM	10	3	4	4	4	2
AU	PPB	25000	3500	6100	3400	11000	1200
BA	PPM	1900	1000	1100	700	2000	500
CO	PPM	<100	<100	<100	<100	<100	<100
CR	%	<0.05	0.13	0.05	<0.05	<0.05	<0.05
CU	PPM	24	14	11	18	28	10
FE	%	<5	6	5	<5	8	<5
HG	PPB	19	170	150	360	12	140
MO	PPM	<5	<5	<5	<5	<5	<5
PB	PPM	2	<2	<2	<2	4	<2
SB	PPM	1.9	1.7	1.8	1.4	1.9	1.4
SC	PPM	20	70	40	30	50	30
TA	PPM	<10	<10	20	10	20	20
TH	PPM	90	80	90	60	100	70
U	PPM	40	33	31	28	37	31
W	PPM	10	10	10	10	20	10
ZN	PPM	63	25	28	42	43	24
LA	PPM	240	310	330	180	300	290

NUCLEAR ACTIVATION SERVICES LIMITED

DATE: 25-JAN-89

REPORT: 10613

FILE NUMBER: 12318

S A M P L E N U M B E R S

ELEMENT ! 210R MC** 211R MC** 212R MC** 213R MC**
 & UNITS ! -78-150HN** -79-150HN** -80-150HN** -81-150HN** .

ELEMENT	UNITS	210R MC**	211R MC**	212R MC**	213R MC**
AG	PPM	1.0	1.0	2.5	1.0
AS	PPM	2	3	5	4
AU	PPB	670	1500	15000	15000
BA	PPM	600	1000	1000	1000
CO	PPM	<100	<100	<100	<100
CR	%	<0.05	0.05	<0.05	<0.05
CU	PPM	11	14	15	18
FE	%	<5	5	7	<5
HG	PPB	35	320	85	140
MO	PPM	<5	<5	<5	<5
PB	PPM	<2	<2	<2	<2
SB	PPM	1.0	1.9	2.6	1.6
SC	PPM	40	50	40	50
TA	PPM	10	20	20	10
TH	PPM	60	90	90	80
U	PPM	20	38	38	29
W	PPM	10	10	10	10
ZN	PPM	25	21	29	33
LA	PPM	240	350	330	350

DISCOVERY CONSULTANT
 PROJECT:
 BILL GILMOUR
 15/12/88

C.F.M. 88-673

SAMPLE NO.	ORIGINAL WEIGHT (KG)	FRACTION	WEIGHT (GMS)
MC-72	10.000		
MC-72		-150HM	4.85
MC-72		-150HP	2.70
MC-72		-150HN	1.23
MC-73	10.000		
MC-73		-150HM	8.66
MC-73		-150HP	18.00
MC-73		-150HN	12.16
MC-74	8.900		
MC-74		-150HM	5.67
MC-74		-150HP	12.36
MC-74		-150HN	4.54
MC-75	8.400		
MC-75		-150HM	4.91
MC-75		-150HP	6.26
MC-75		-150HN	1.88
MC-76	7.100		
MC-76		-150HM	6.95
MC-76		-150HP	7.69
MC-76		-150HN	2.35
MC-77	7.800		
MC-77		-150HM	7.27
MC-77		-150HP	19.76
MC-77		-150HN	6.08
MC-78	8.600		
MC-78		-150HM	9.76
MC-78		-150HP	25.88
MC-78		-150HN	10.47
MC-79	9.400		
MC-79		-150HM	6.91
MC-79		-150HP	25.02
MC-79		-150HN	5.68

DISCOVERY CONSULTANT

C.F.M. 88-673

BILL GILMOUR
15/12/88

SAMPLE NO.	ORIGINAL WEIGHT (KG)	FRACTION	WEIGHT (GMS)
MC-80	8.300		
MC-80		-150HM	4.45
MC-80		-150HP	9.14
MC-80		-150HN	2.82
MC-81	9.000		
MC-81		-150HM	7.34
MC-81		-150HP	12.36
MC-81		-150HN	5.51