

ARIS SUMMARY SHEET

District Geologist, Prince George

Off Confidential: 89.05.09

ASSESSMENT REPORT 17647

MINING DIVISION: Cariboo

PROPERTY: Lea
LOCATION: LAT 52 26 00 LONG 121 23 00
UTM 10 5810247 609910
NTS 093A06W

CLAIM(S): Lea
OPERATOR(S): Durfeld, R.M.
REPORT YEAR: 1988, 13 Pages

COMMODITIES
SEARCHED FOR: Copper, Gold

GEOLOGICAL
SUMMARY: The Lea property is underlain by Triassic to Jurassic alkalic volcanic rocks and their derived sediments, which are intruded by monzonite. The mineral potential in this area is for intrusive contact gold-copper deposits similar to the "QR" deposits 60 kilometres to the northwest.

WORK
DONE: Prospecting
PROS 250.0 ha
SILT 7 sample(s) ;ME

LOG NO. 0617

RD.

ACTION:

FILE NO:

GEOCHEMICAL AND GEOLOGICAL REPORT
ON THE LEA MINERAL CLAIM
CARIBOO MINING DIVISION, BRITISH COLUMBIA

NTS 93A/6W

52° 26' north latitude

121° 23' west longitude

By

R.M. Durfeld

Durfeld Geological Management Ltd.
180 Yorston Street
Williams Lake, B.C. V2G 3Z1

June 1988

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,647

FILMED

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- Geochemical Stream Sediment Sample Results

ILLUSTRATIONS

- Figure 1 - Property Location Map (1:50,000)
- Figure 2 - Sample Location Map (1:20,000)
- Figure 3 - Geochemical Map (1:20,000)
- Figure 4 - Geological Map (1:20,000)

A.) INTRODUCTION

1) Location

The LEA property is located (Figure 1) in the Cariboo Mining Division, British Columbia, 64 kilometres northeast of the city of Williams Lake and 11 kilometres north of the community of Horsefly. More precisely, it is located at 52 degrees 26 minutes north latitude and 121 degrees 23 minutes west longitude. (National Topographic System Map 93A/6W)

2) Access and Physiography

The LEA property is readily accessible from Williams Lake via paved highway to the community of Horsefly from where secondary gravel roads via Horsefly, Nitwit and Murdoch Lakes access the property.

The LEA property covers gentle south and west-facing slopes that are dominated by the westerly drainages from Hooker and Lea lakes. The elevation on the LEA property varies from 800 to 950 metres above sea level.

The vegetation on the LEA property is characterized by mature forests of pine, spruce and fir with variable undergrowths of alder and devil's club. Some of the eastern portion of the property has recently been subjected to clearcut logging.

3) Ownership

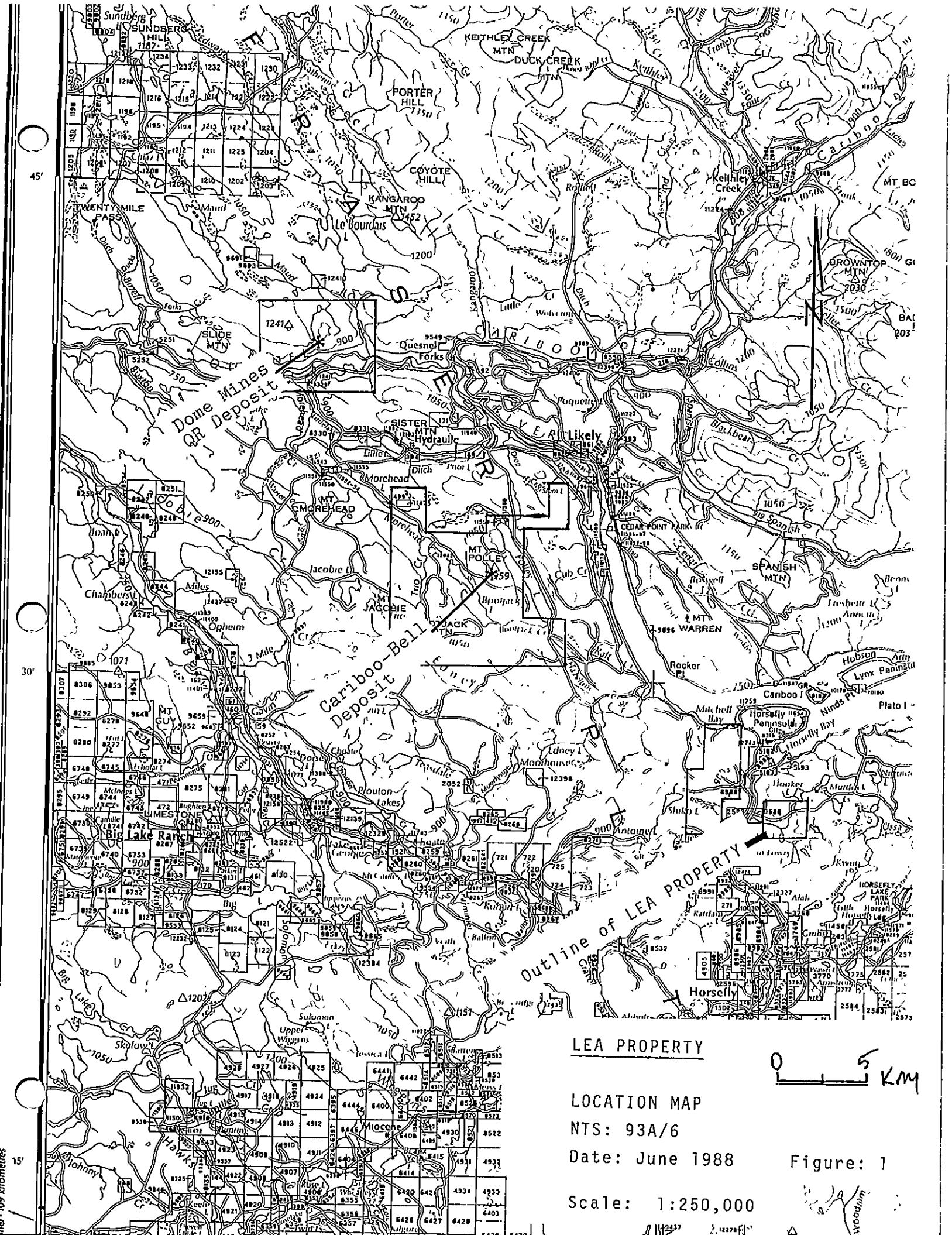
The LEA property consists of 1 mineral claim comprised of 20 claim units that was located under the British Columbia Modified Grid System. (Figure 2) The current status of this claim is summarized as:

Claim Name	Number of Units	Record Number	Record Date
LEA	20	8408 (5)	May 07, 1987

All interest in the LEA mineral claim is held by Benno Durfeld.

4) Previous Work

In August 1973, Hudson's Bay Oil and Gas Company Limited recorded the Hook mineral claims whose northern area covers the same location as the LEA mineral claim. In 1974 Hudson's Bay conducted geological mapping, induced polarization, magnetometer, geochemical soil sampling and percussion drilling programs that are documented as assessment report 5088.



LEA PROPERTY

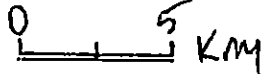
LOCATION MAP

NTS: 93A/6

Date: June 1988

Figure: 1

Scale: 1:250,000



Scale: 1:250,000

Since 1974 this area has been covered by several claim groups that have no work documented for assessment credit.

5) Economic Considerations

The LEA property is linked to the city of Williams Lake by sixty-five kilometres of paved and twenty kilometres of all-weather gravel road. The infrastructure at Williams Lake would easily support any development in the LEA area. High-voltage hydroelectric lines pass within twenty kilometres of the LEA property. A reliable supply of water is readily available from the Horsefly River, and there is adequate area on the LEA property for waste and/or tailings disposal.

6) Purpose of Program

A limited program of stream sediment sampling and geological mapping on the LEA claim was carried out. The purpose of this work was to geologically evaluate the area and determine the geochemical response as stream sediment sampling of the main drainages in the area.

B.) GEOCHEMISTRY

To evaluate the regional mineral potential of the LEA property seven silt samples were collected and sent to MIN-EN Labs in Vancouver. MIN-EN subjected the samples to heavy media flotation and analyzed the heavy fraction for gold and multi-element ICP. The location of these sample sites is shown as figure 2 and the results are highlighted as figure 3 and listed as appendix I of this report.

Gold

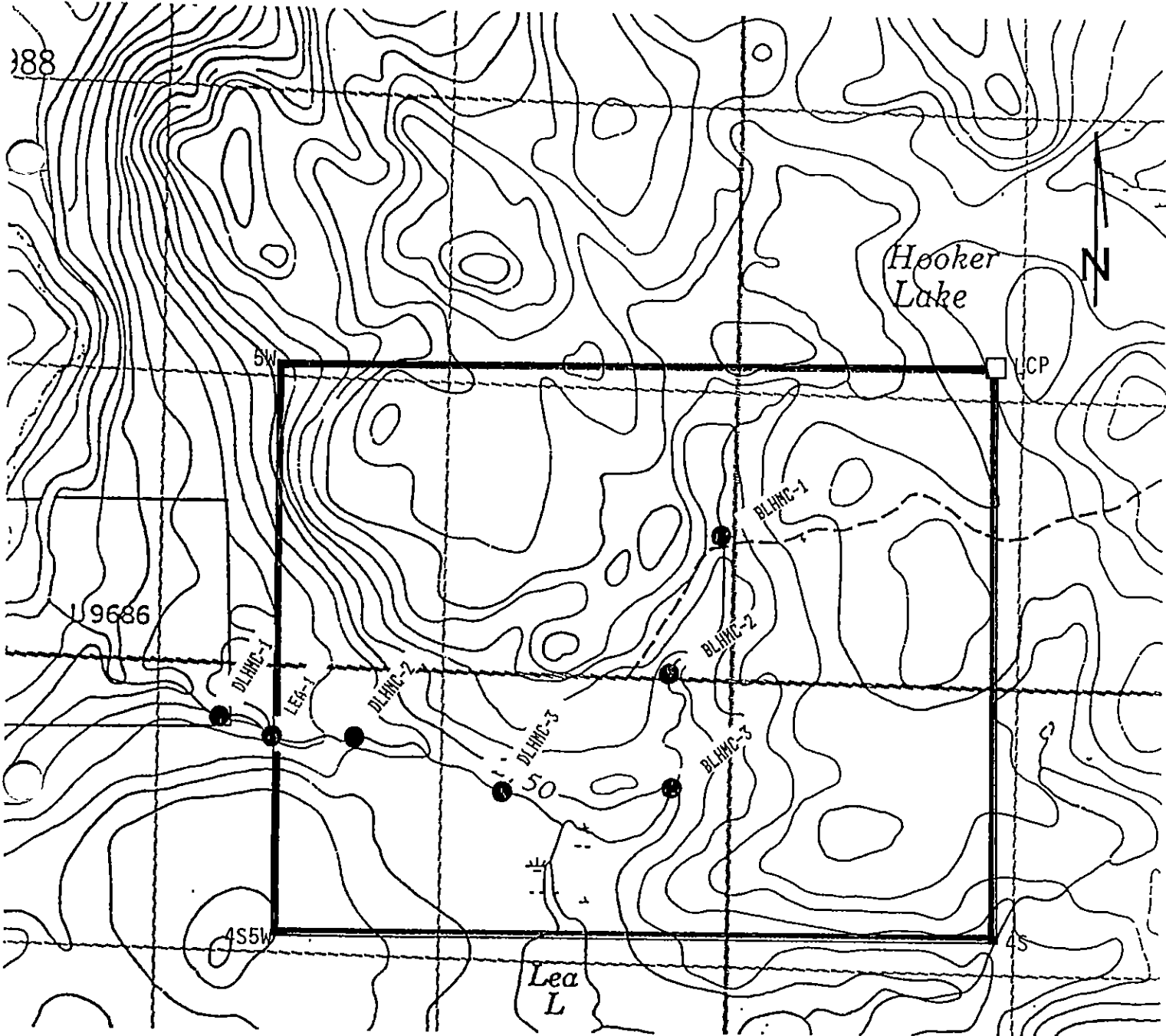
The results for gold were background and only sample Lea 1 was weakly anomalous (50 ppb gold). These results suggests that this survey did not recognize a source mineralized in gold.

The results for silver, arsenic, copper, molybdenum, lead and zinc were also low and would not suggest a mineralized source.



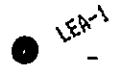
C.) GEOLOGY

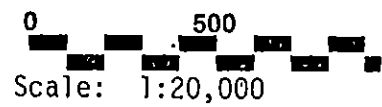
1.) Regional Geology

Geologically, the LEA property is located in a structural feature known as the Quesnel Trough, a 30 kilometre wide, northwest-trending, Early Mesozoic Age volcanic-sedimentary belt of regional extent. The Quesnel Trough in the Horsefly area is a fault-bounded region that is flanked to the east by Precambrian to Paleozoic rocks of the Barkerville and Slide Mountain terranes and to the west by



LEGEND

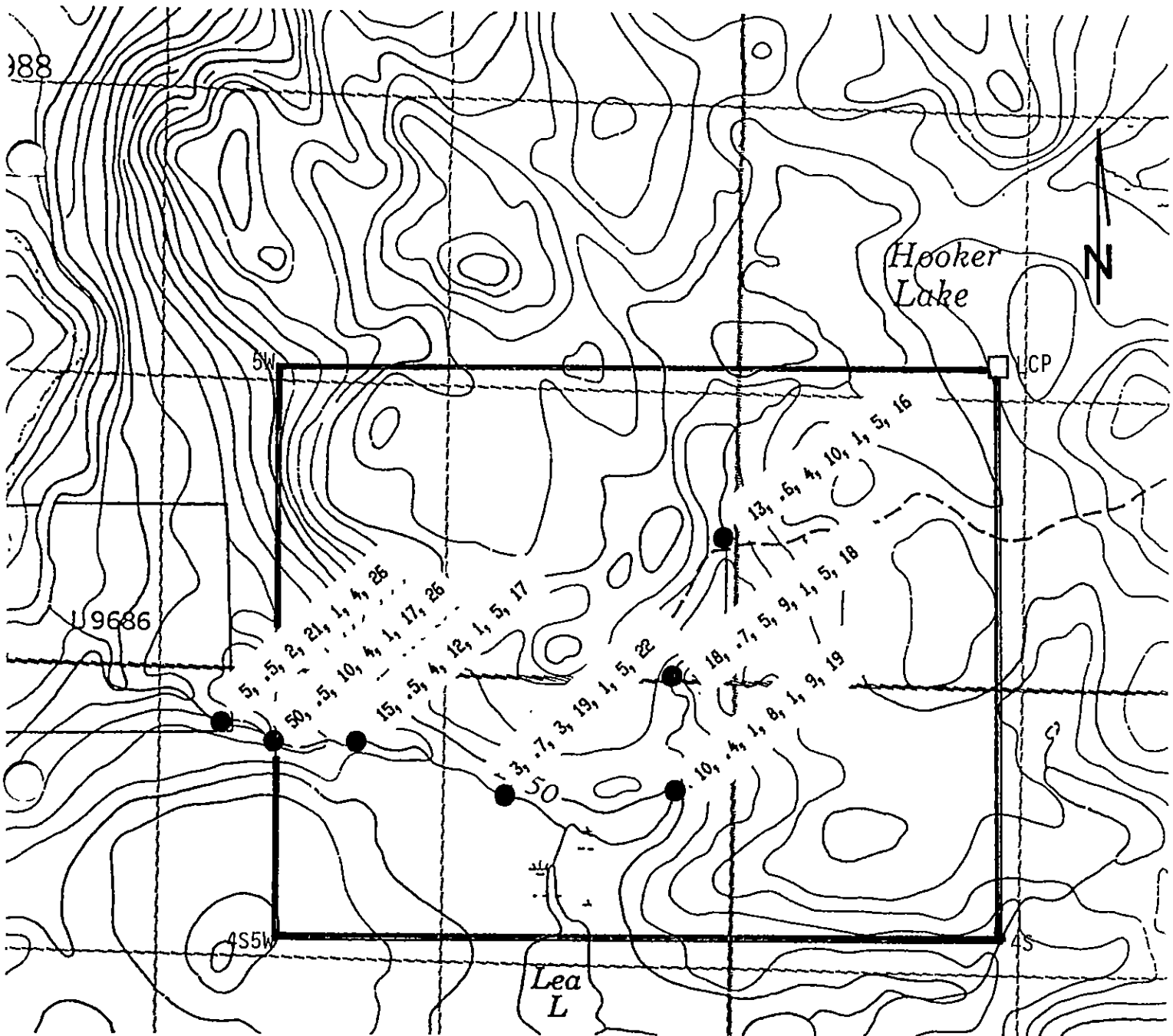
-  - outline of the LEA mineral claim
-  - stream sediment sample location site
-  - sample number



LEA PROPERTY

SAMPLE LOCATION MAP
 NTS: 93A/6
 Date: June 1988

Figure: 2



LEGEND



- outline of the LEA mineral claim



- stream sediment sample location site



50, .5, 10, 4, 1, 17, 25

- gold (ppb), silver (ppm), arsenic (ppm), copper (ppm), molybdenum (ppm), lead (ppm), zinc (ppm)



Scale: 1:20,000

LEA PROPERTY

GEOCHEMICAL MAP

NTS: 93A/6

Date: June 1988

Figure: 3

Paleozoic rocks of the Cache Creek terrane.

Regional mapping recently completed by A. Panteleyev of the British Columbia Department of Mines of the Quesnel Trough in the Horsefly area shows the Triassic-Jurassic age Takla Group, comprised of submarine volcanic rocks together with their derived sedimentary units, discontinuous carbonate horizons, and marine sediments to be prevalent in the LEA area.

2.) LEA Property Geology

The interpretation of the LEA property geology is based on the author's limited mapping in the property area and is summarized as figure 4 in this report.

The oldest rocks on the LEA property are Lower Jurassic hornblende and pyroxene basalt flows (unit A) and fine grained mafic tuff (unit B). In the east-central area of the property these rocks are hornfelsed and altered in response to the emplacement of the monzonite to diorite intrusion (unit C). Unit D is exposed in the west central area of the property as a fine felsic lithology with moderate to strong carbonate and argillic alteration. The primary origin of this lithology is not known and unit D is more just an alteration feature.

The only significant sulphide mineralization on the LEA property is as disseminated and veined pyrite in unit D comprising up to 15 % of the rock.

D.) CONCLUSIONS

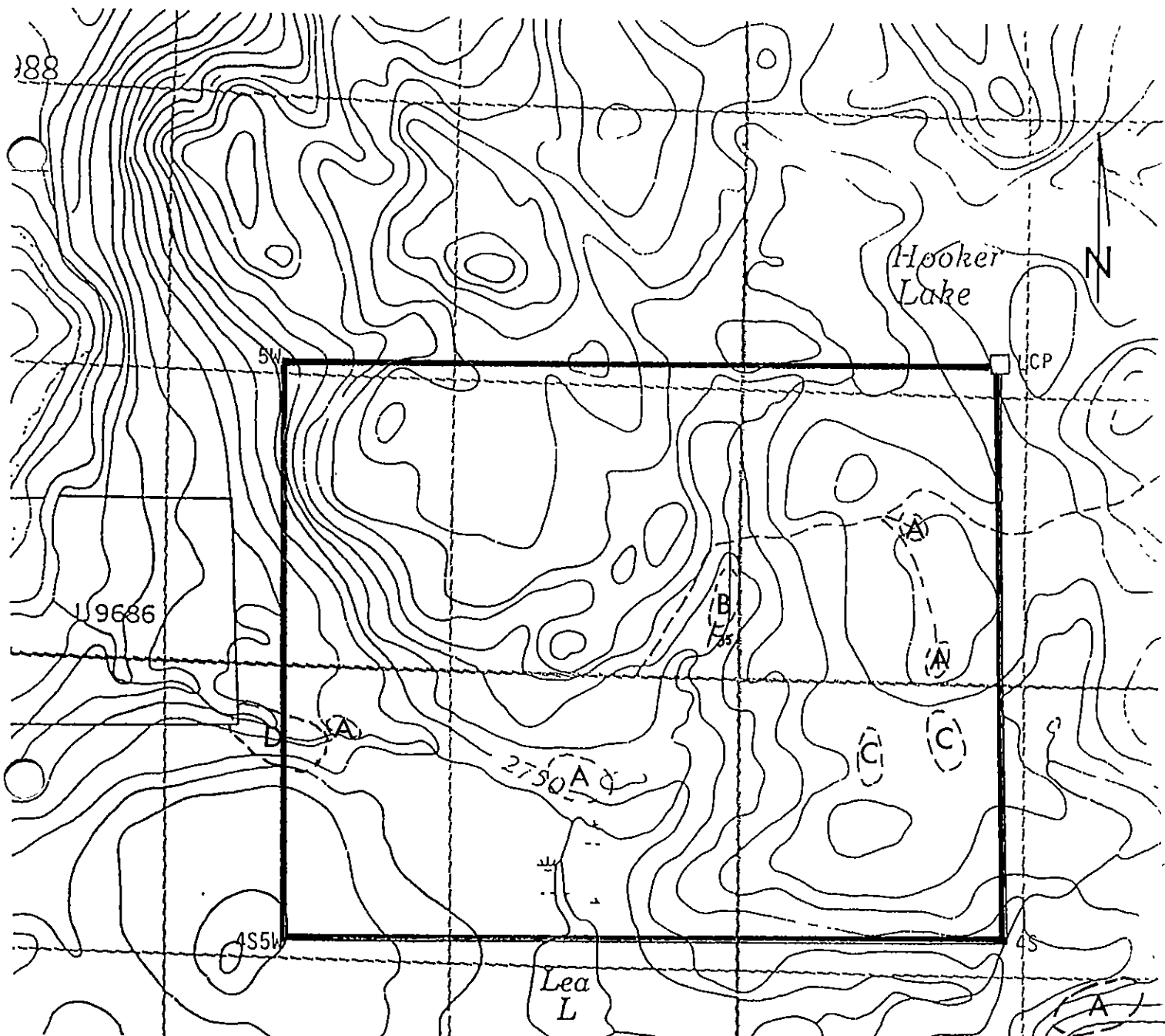
The LEA property is underlain by a basaltic volcanic to volcanoclastic sequence that has been intruded by an alkalic, monzonite to diorite, stock. The "QR" Deposit to the northwest is developed in a similiar alkalic volcanic-intrusive setting.

Preliminary heavy media flotation silt sampling in the property area returned background values in gold, silver, arsenic, copper, molybdenum, lead and zinc.

E.) COST STATEMENT

TECHNICAL STAFF

GEOLOGIST	- R. Durfeld	
	2 days @ \$300	\$ 600.00
ASSISTANT	- D. Dunlop	
	2 days @ \$150	300.00
	- B. Durfeld	
	1 day @ \$150	150.00



LEGEND



- outline of the LEA mineral claim



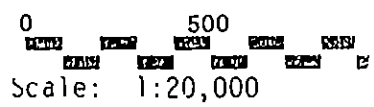
- outcrop area

D- fine grained felsic lithology with moderate to strong carbonate alteration and veined and disseminated pyrite.

C- monzonite to diorite - moderately magnetic

B- fine grained mafic tuff - magnetic

A- hornblende - pyroxene basalt - moderate magnetic



LIA PROPRIETY


GEOLOGICAL MAP

NTS: 93A/6

Date: June 1988

Figure: 4


BOARD	- 5 mandays @ \$25	125.00
TRUCK RENTAL AND FUEL		250.00
GEOCHEMICAL ANALYSES		267.75
REPORT	- compilation of data and drafting	350.00
TOTAL COST OF PROGRAM		<u>\$2,042.75</u>


 R.M. Durfeld, B.Sc.
 (Geologist)

F.) CERTIFICATE

I Rudolf M. Durfeld, do hereby certify:

- 1.) That I am a geologist with offices at 180 Yorston Street, Williams Lake, B.C.
- 2.) That I am a graduate of the University of British Columbia, B.Sc. Geology 1972, and have practiced my profession with various mining and/ or exploration companies and as an independent geologist consultant since graduation.
- 3.) That I am a Fellow of the Geological Association of Canada (Member No: F3025), and am a member of The British Columbia and Yukon Chamber of Mines and the Canadian Institute of Mining and Metallurgy.
- 4.) That this report is based on my personal knowledge of the property as geologist on the limited exploration program that was conducted on the LEA property during the period July 1st to July 31th, 1987.


 R.M. Durfeld, B.Sc.
 (Geologist)

APPENDIX I:

Geochemical Stream Sediment Sample Results

PROJECT NO:

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 7-640

ATTENTION: RUDY DURFELD

(604)980-5814 OR (604)980-4524

* TYPE HEAVY MINERAL * DATE: JULY 1, 1987

(PPK) LEA-1

AG .5
 L 5270
 AS 10
 B 7
 BA 338

BE .6
 BI 1
 CA 5020
 CD 2.2
 CO 9

CU 4
 FE 37970
 K 290
 LI 2
 MG 4660

MN 350
 MO 1
 NA 120
 NI 16
 P 390

PB 17
 SB 1
 SR 25
 TH 1
 U 1

V 39.1
 ZN 26
 GA 1
 SN 2
 W 1

CR 34
 AU-PPB 50
 HMZ 15.26

PROJECT NO:

7 EST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 7-940

ATTENTION: R. DURFELD

(604)980-5814 OR (604)988-4524 * TYPE HEAVY MINERAL * DATE: AUGUST 11, 1987

(VALUES IN PPM) AG AL AS B BA BE BI CA CD CO CU FE

DLHMC-1	.5	5550	2	5	218	.8	2	5920	.3	6	21	24000
DLHMC-2	.5	4660	4	4	16	.4	2	5280	.4	3	12	12160
DLHMC-3	.7	5940	3	4	13	.6	1	6170	2.2	4	19	13920
BLHMC-1	.6	4170	4	2	12	.4	3	3870	1.4	3	10	10020
BLHMC-2	.7	4890	5	3	14	.4	3	4540	1.2	4	9	11240
BLHMC-3	.4	5210	1	4	12	.6	4	5540	1.7	4	8	12900

COMPANY: DURFELD GEOLOGICAL

HIN-EN LABS ICP REPORT

(ACT:631) PAGE 2 OF 3

PROJECT NO:

7 EST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 7-940

ATTENTION: R. DURFELD

(604)980-5814 OR (604)988-4524 * TYPE HEAVY MINERAL * DATE: AUGUST 11, 1987

(VALUES IN PPM) K LI MG MN MO NA NI P PB SB SR TH

DLHMC-1	260	3	4560	322	1	120	16	560	4	1	34	1
DLHMC-2	190	3	5030	299	1	160	20	260	5	1	18	1
DLHMC-3	210	3	7240	308	1	160	19	340	5	1	18	1
BLHMC-1	190	3	3480	252	1	80	11	280	5	2	18	1
BLHMC-2	210	3	4070	254	1	110	17	310	5	1	17	1
BLHMC-3	190	3	6070	233	1	200	24	200	9	1	15	1

ATTENTION: R. DURFELD

(604)980-5814 OR (604)988-4524 * TYPE HEAVY MINERAL * DATE: AUGUST 11, 1987

(VALUES IN PPM) U V ZN GA SN W CR AU-PPB HMZ

DLHMC-1	1	44.2	26	1	1	2	30	5	12.48
DLHMC-2	2	29.1	17	1	1	1	43	15	18.08
DLHMC-3	1	38.7	22	2	1	1	37	3	17.68
BLHMC-1	4	23.8	16	2	1	1	50	13	19.82
BLHMC-2	1	28.4	18	1	1	1	55	18	12.23
BLHMC-3	1	30.1	19	2	1	1	83	10	22.21