

83-#98

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**11,273**

GEOCHEMICAL REPORT  
on the  
VIDETTE PROPERTY  
of  
HAWKEYE RESOURCES LTD.

by

J.S. Kermeen, M.Sc., P. Eng.  
Consulting Geological Engineer  
Report No. C83-7

March 8, 1983

Kamloops, B.C.



ASSESSMENT REPORT  
on the  
VIDETTE PROPERTY  
HAMILTON CREEK, B.C.

Type of Work: Geochemical

Claims: Vidette #1 (592(2)), Valley #1 (569) Lot 4747, Valley #2 (570) Lot 4748, New Hope (565) Lot 4751, CE Fraction (562) Lot 4764, Argenta #1 (561) Lot 4766.

Mining Division: Clinton

NTS Location: 92 P/2W

Latitude: 51<sup>0</sup> 10' 35" N  
Longitude: 120<sup>0</sup> 55' 22" W

Owner: Hawkeye Resources Ltd.  
1100 - 235 1st Avenue  
Kamloops, B.C.  
V2C 3J4

Operator: Hawkeye Resources Limited

Consultant: J.S. Kermeen, M.Sc., P. Eng.  
Consulting Geological Engineer  
55 Whiteshield Crescent South  
Kamloops, B.C. V2E 1P3

Author: J.S. Kermeen

Date Submitted: March 8, 1983

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INTRODUCTION

The Vidette property of Hawkeye Resources Ltd. is located immediately north of Vidette Lake, some 70 kilometres northwest of Kamloops, B.C. Vidette Lake is part of the Hamilton Creek drainage which flows south-easterly to its junction with Deadman Creek; Deadman Creek, in turn flows southerly to join the Thompson River. Access to the property is by a means of a gravel road which leaves the Trans-Canada Highway 8 kilometres west of Savona, B.C. and proceeds northerly along the above-mentioned drainage to the property.

Claims in the Vidette property are listed below:

<u>Name</u>	<u>Record No.</u>	<u>Lot No.</u>	<u>Area</u>
Vidette #1	592 (2)	—	20 units
Valley #1	569	4747	6.00 hectares
Valley #2	570	4748	1.97 " "
New Hope	565	4751	19.92 " "
Argenta #1	561	4766	13.40 " "
CE Fraction	562	4764	0.26 " "

The Vidette property lies immediately northwest of a now-abandoned mine of Vidette Gold Mines Limited which produced 96,619 pounds of copper, 29,869 ounces of gold, 46,573 ounces of silver and 356 pounds of lead from 54,199 tons of ore during the period 1933 to 1940.

A favorability for deposits of the same metals on the Vidette property of Hawkeye Resources is inferred.

In 1980 a reconnaissance geochemical survey was conducted over the entire property by Kerr, Dawson and Associates Ltd. of Kamloops. A total of 231 B-horizon soil samples were taken at intervals of 50 metres on lines spaced 500 metres apart, covering the entire property. Samples were analysed for copper, gold and mercury. A large NNW-trending copper anomaly, within which anomalous samples of gold and mercury also occur, was reported. (2)

In 1981, a fill-in soil geochemical survey to provide greater detail over the anomaly defined by the 1980 survey was performed. 244 B-horizon soil samples were collected at 50 metre intervals along lines spaced 125 metres apart. Samples were analysed for copper and silver. One area of anomalously high copper values and two areas of very anomalously high copper values were reported. (3)

In February 1983 remaining pulps of 82 samples collected during the 1981 survey were analysed for gold. This report pertains to the interpretation of these analyses.

The writer did not personally supervise the collection of these samples but is confident that they were properly recovered under the supervision of Alan J. Reed, P. Eng. during the 1981 survey.

GEOCHEMISTRYSampling Procedure

The following is an excerpt from a report by A.J. Reed, P. Eng.<sup>(3)</sup>:  
"Soil samples were collected from the B-horizon at a depth of 15 to 30 cm. in holes dug with 3 lb. mattocks. Sample spacing along the lines was 50 metres and a total of 244 samples were collected along a total grid line length of 11.75 km."

The samples were screened and the -80 mesh fraction was retained for assay. The samples submitted for the work covered by this report were unused -80 mesh material remaining from the 1981 survey.

Analytical Procedure

The -80 mesh samples were submitted to Kamloops Research and Assay Laboratory.

Using samples as close as possible to one assay-ton, gold was collected in a bead by fire assay. This bead was then dissolved in aqua regia and analysed for gold by Atomic Absorption.

The detection limit for this method is about 5 ppb; concentrations below 5 ppb are shown as L 5 (less than 5 ppb).

Interpretation

Gold analyses are plotted on the attached map C83-7-3. Also shown on the same map are contours which outline the anomalous copper readings from previous surveys.

All samples ran 5 ppb or less except one at 6+25 N; 0+50 W which analysed an anomalously high 50 ppb gold.

Statistical analysis is obviously not applicable to this population.

SUMMARY AND CONCLUSIONS

This report records and interprets the results of 82 gold analyses of B-horizon soil samples from the Vidette property which had been collected in an earlier sampling program.

The results of this survey are inconclusive because insufficient material remained to analyse several key samples which analysed anomalously high in copper.

However, certain conclusions can be drawn from the available results:

(1) The fact that all samples except one ran low background (5 ppb or less) suggests that large low grade gold deposits do not exist in the area surveyed.

(2) The results do not, however, rule out the possibility of small high grade veins. In fact, the one highly anomalous reading at 6+25 N; 0+50 W could represent such a vein but requires further confirmations.

(3) A correspondence of anomalous readings in copper and gold was detected in an earlier survey.<sup>(2)</sup> This is an expected correlation. Although several background gold analyses in the present study corresponded with anomalous copper readings, a number of highly anomalous copper samples were not run for gold due to insufficient sample; further field sampling at the sites from which these anomalous copper readings were obtained is warranted.

(4) The interpretation of anomalous copper analyses from previous surveys suggest two possible trends of mineralization:

- (a) NNW, paralleling on inferred fault structure.
- (b) NE

Some further soil sampling on lines between those previously sampled is advisable to check these structural trends.

RECOMMENDATIONS

Additional field sampling is recommended to:

- (a) test the vicinity of the one anomalously high gold analysis.
- (b) check copper anomalous sites not yet analysed for gold.
- (c) fill-in between existing lines.

In all a total of 46 sample sites as detailed in the Appendix II are recommended. These samples should be analysed for gold, silver and copper.

The cost of collecting, analysing and interpreting these samples is estimated to be:

Field sampling	\$300
Analyses	\$460
Interpretation, report and drafting	\$500
	<u>          </u>
	\$ 1260
	<u>          </u>



LIST OF REFERENCES

- (1) Campbell, R.B. & Tipper, H.W.: Geology of the Bonaparte Lake Map Area, Geological Survey of Canada Memoir #363, 1971.
- (2) Gruenwald, W: Kerr , Dawson & Associates Ltd. Geochemical Report on the Vidette #1 Claim, Lots 4747, 4748, 4751, 4764, 4766, 1980.
- (3) Reed, A.J.: Geochemical Report on the Vidette Property, Clinton M.D., 1982.

CERTIFICATE

I, James Seaton Kermeen, do hereby certify:

- (1) That I am a Consulting Geological Engineer with office at 55 Whiteshield Crescent South, Kamloops, British Columbia.
- (2) That I am a graduate of the University of Saskatchewan with the degrees of Bachelor of Science in Geological Engineering (1951) and Master of Science (Geology) (1955).
- (3) That I am a member in good standing of the Association of Professional Engineers of British Columbia and Saskatchewan.
- (4) That I have practiced my profession continuously for 31 years.
- (5) That the attached report relating to gold geochemistry on the Vidette Property of Hawkeye Resources Ltd. is based on analyses of samples collected in a previous survey supervised by A.J. Reed, P. Eng.
- (6) That I have no interest, either directly or indirectly in the property or related securities covered by the attached report on the Vidette Property of Hawkeye Resources Ltd.; nor do I expect to receive such interest.

Dated at Kamloops, British Columbia this 8th Day of March, 1983.



Appendix I

Geochemical Analyses

**KAMLOOPS  
RESEARCH & ASSAY  
LABORATORY LTD.**

B.C. CERTIFIED ASSAYERS

2095 WEST TRANS CANADA HIGHWAY — KAMLOOPS B.C.  
V1S 1A7  
PHONE: (604) 372-2784 — TELEX: 048-8320

**GEOCHEMICAL LAB REPORT**

Hawkeye Resources Ltd.  
1615 Mt. Dufferin Avenue  
Kamloops, B.C.  
V2E 1H8

DATE February 8, 1983

ANALYST \_\_\_\_\_

FILE NO. G-764

KRAL NO	IDENTIFICATION	Au ppb		KRAL NO	IDENTIFICATION	Au ppb	
1	L01+25 00+50W	L5		31	L06+25n 06+00W	L5	
2	02+50W	L5		32	06+50W	L5	
3	03+00W	L5		33	07+00W	5	
4	03+50W	L5		34	07+50W	L5	
5	04+00W	L5		35	08+00W	L5	
6	04+35W	L5		36	08+50W	L5	
7	L02+50N 00+50W	L5		37	09+00W	L5	
8	01+00W	L5		38	L07+50W 00+00W	5	
9	01+50W	L5		39	01+00W	L5	
10	02+00W	L5		40	01+50W	L5	
11	03+50W	L5		41	02+00W	L5	
12	04+00W	L5		42	03+50W	L5	
13	04+50W	L5		43	04+00W	L5	
14	L03+75N 00+00W	L5		44	04+50W	L5	
15	00+50W	L5		45	05+50W	L5	
16	01+00W	L5		46	06+00W	L5	
17	01+50W	L5		47	06+50W	L5	
18	02+00W	L5		48	07+00W	L5	
19	02+50W	L5		49	L08+75N 00+00W	L5	
20	05+00W	L5		50	00+50W	L5	
21	L06+25N 00+00W	L5		51	01+00W	5	
22	00+50W	50		52	01+50W	L5	
23	02+00W	L5		53	02+00W	L5	
24	02+50W	L5		54	02+50W	L5	
25	03+00W	L5		55	03+00W	L5	
26	03+50W	L5		56	04+00W	L5	
27	04+00W	L5		57	05+00W	L5	
28	04+50W	L5		58	L10+00N 00+00W	L5	
29	05+00W	L5		59	00+50W	L5	
30	05+50W	L5		60	01+50W	L5	



APPENDIX II

Recommended Additional Sample Sites.

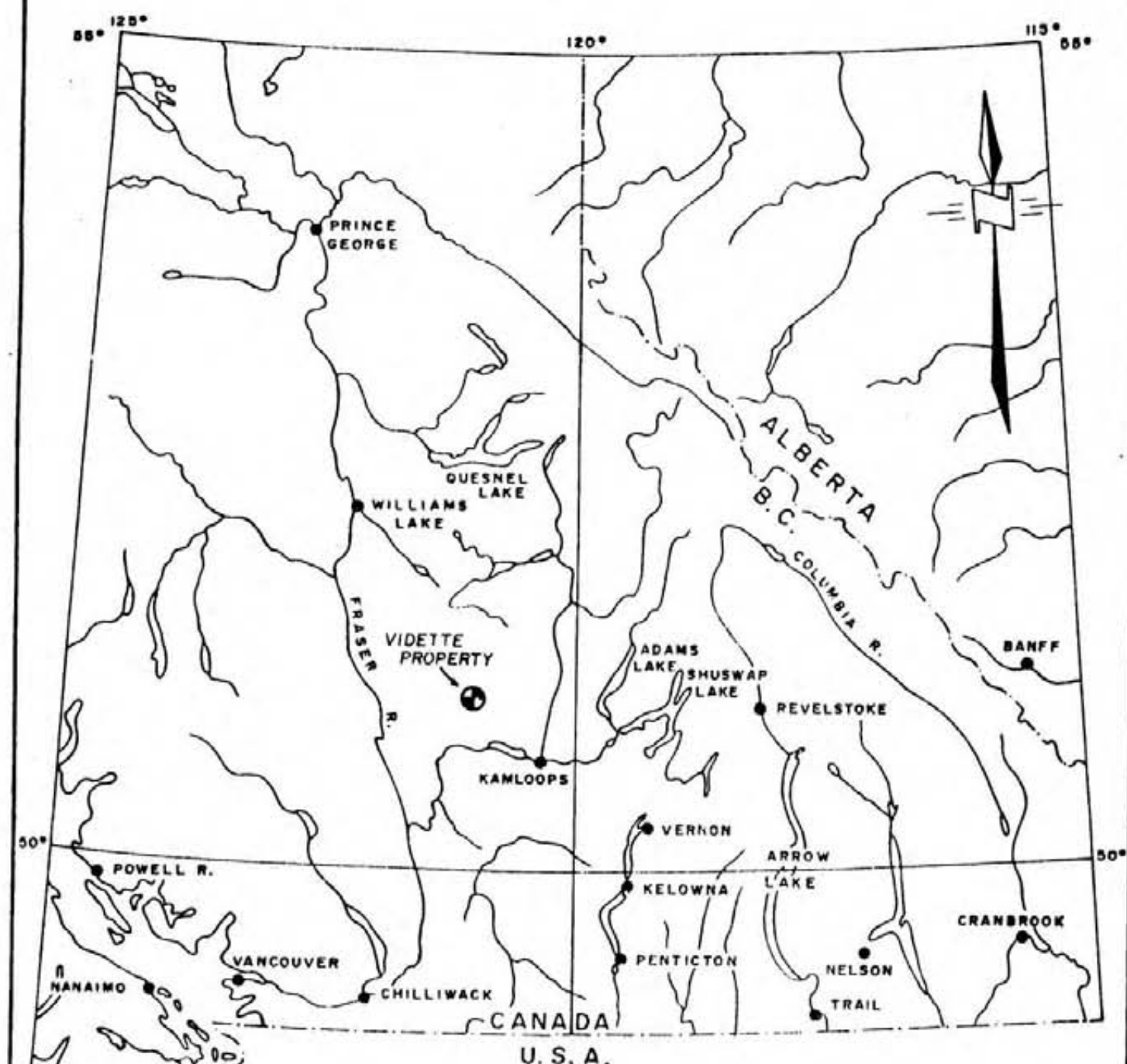
(see grid on attached map C83-7-3; all westerly distances relate to baseline 0+00 on east boundary of the Vidette claim).

<u>Line</u>	<u>Picket Interval On Line</u>	<u>No. of Samples</u>
2+50 N	2+50 W; 3+00 W	2
3+12.5 N	0+50 W to 3+00 W @ 50 m intervals	6
4+ 37.5 N	5+50 W to 7+50 W @ " "	5
5+00 N	5+50 W to 8+50 W @ " "	7
5+62.5 N	6+00 W to 9+00 W @ " "	7
6+25 N	7+00 W to 9+00 W @ " "	5*
7+50 N	7+00 W; 8+00 W	2
8+12.5 N	11+00 W to 13+50 W @ 50 m intervals	6
8+75 N	10+50 W; 11+00 W; 12+00 W	3
	Total	46

\*Includes resampling of anomalous site 6+25 W; 0+50 W.

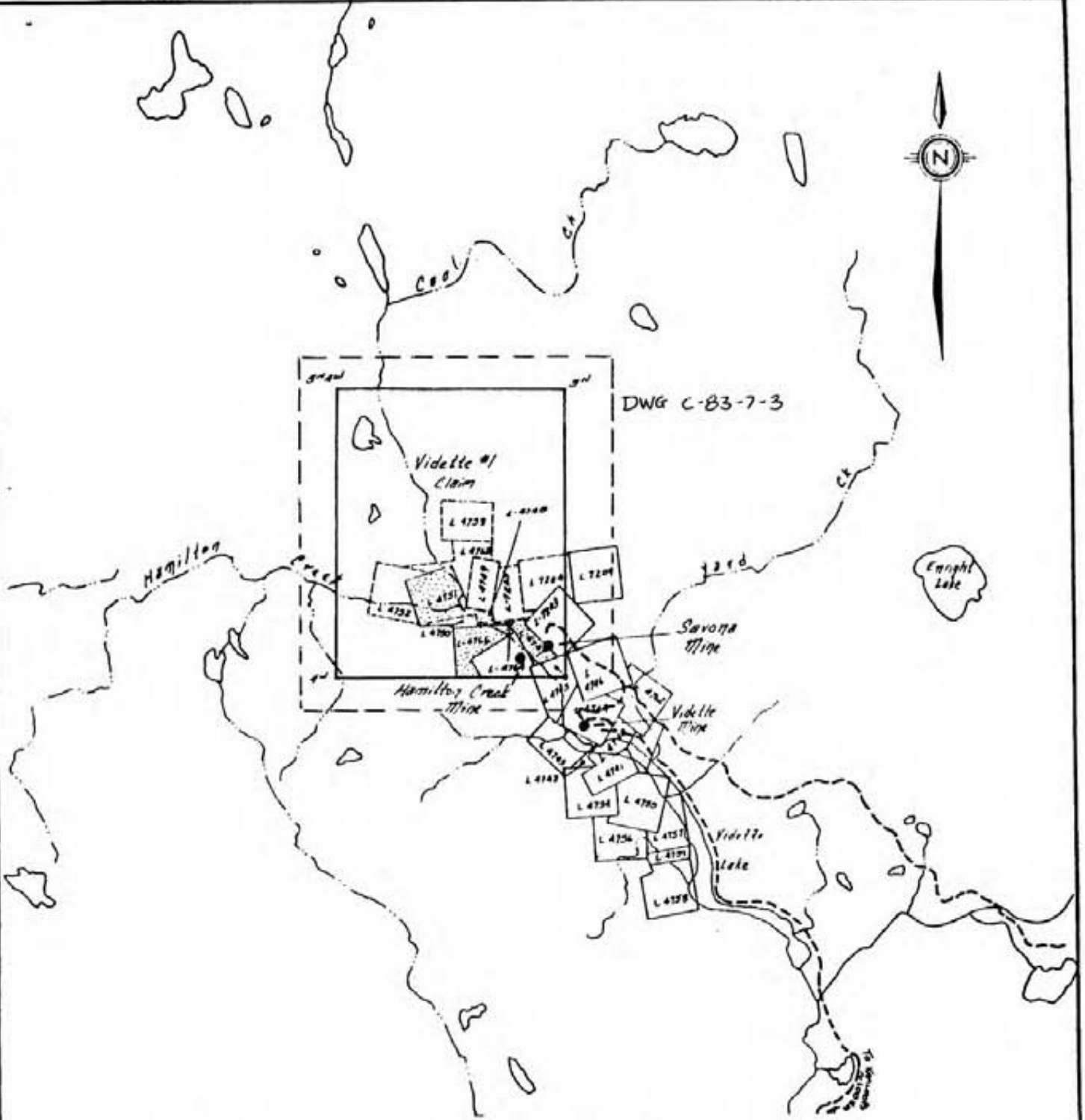
APPENDIX III - COST STATEMENT

Geochemical Analyses; 82 samples for Au at \$6.00	\$ 492.00
Interpretation and report preparation	
J. S. Kermeen, Consulting Geological Engineer	<u>600.00</u>
	\$ 1092.00



<b>J.S. KERMEEN</b> M.B., P. ENG. CONSULTING GEOLOGICAL ENGINEER		
<b>CLIENT: HAWKEYE RESOURCES Ltd.</b>		
<b>PROJECT/PROPERTY: VIDETTE CLAIM</b>		
<b>TITLE:</b>  <b>LOCATION MAP</b>		
<b>PREP BY: JSK</b>	<b>NTS NO: 92 P2</b>	<b>DATE DWN: 83-3-8</b>
<b>DWN BY: M BLISS</b>	<b>AREA:</b> <b>CRIBS CREEK BC.</b>	<b>DATE REVISED:</b>
<b>SCALE: 1" = 64 Miles</b>	<b>DRAWING NO: 089-7-1</b>	

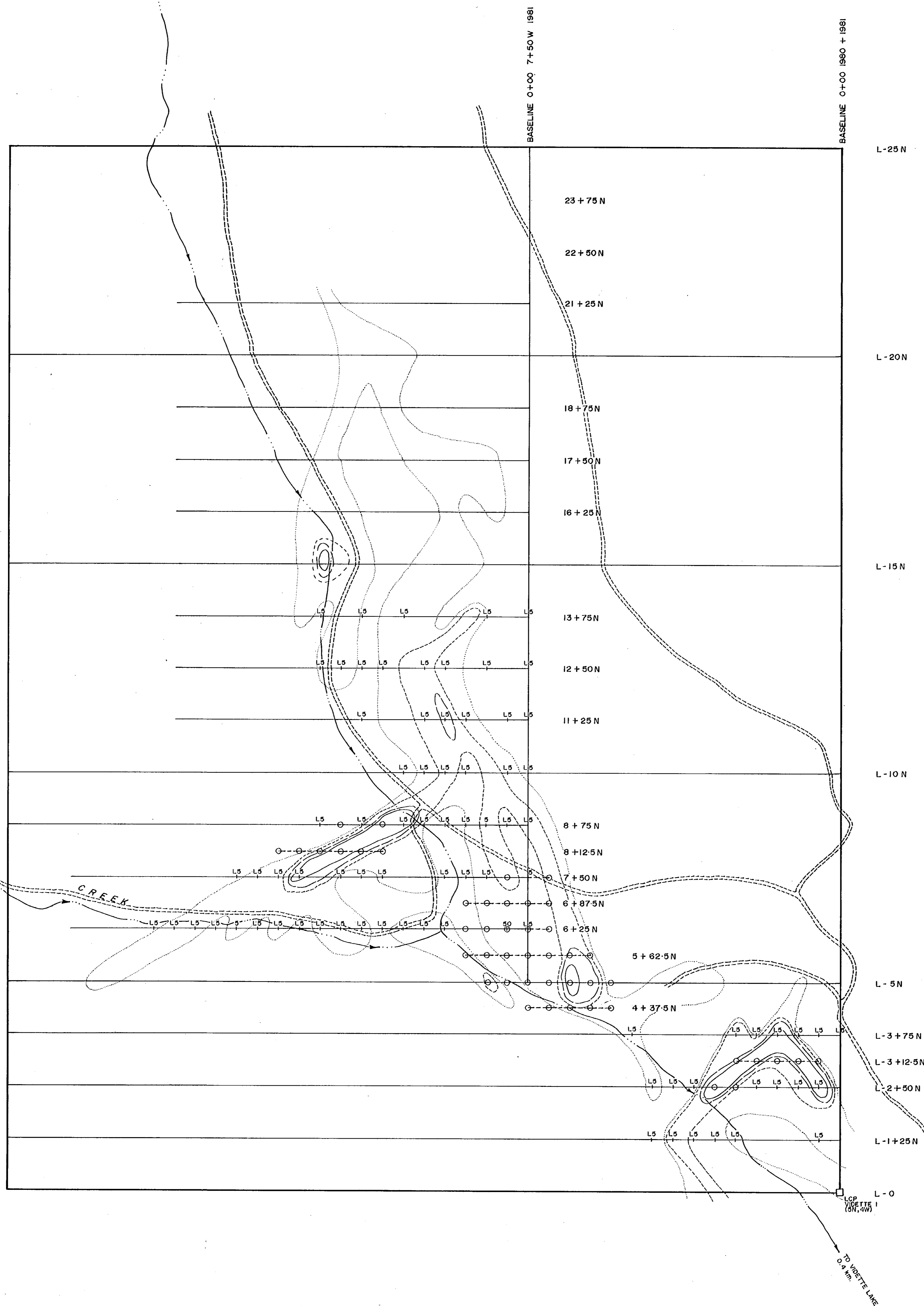




Reverted crown granted claims held by Hawkeye Resources Ltd.

J.S. KERNEEN CONSULTING GEOLOGICAL ENGINEER		
CLIENT: HAWKEYE RESOURCES		
PROJECT/PROPERTY: VIDETTE CLAIM		
TITLE:  INDEX MAP		
PREP BY: JSK	NTS No: 92 PB	DATE DWN: 83-3-8
DWN BY: M BLISS	AREA: CRISS CREEK BC.	DATE REVISED:
SCALE: 1:50,000		DRAWING NO: C83-7-2

11,273



LEGEND

- GEOCHEMICAL CONTOURS Cu in soil.
- $\bar{x} + 3s$  ————— 678 ppm.
  - $\bar{x} + 2s$  ————— 492 ppm.
  - $\bar{x} + s$  ————— 306 ppm.
  - $\bar{x}$  ————— 120 ppm.
- From 'Geochemical Report on the Vidette Property', by A.J. Reed, P.Eng., January 11, 1982
- CREEK
  - - - ROAD
  - Gold analysis p.p.b. (L = Less than)
  - GRID LINE WITH 50m STATION MARKER.
  - PROPOSED ADDITIONAL LINES AND SAMPLE SITES.



*J.S. Kermeen*

J.S. KERMEEN M.Sc., P.Eng. CONSULTING GEOLOGICAL ENGINEER		
CLIENT: HAWKEYE RESOURCES Ltd.		
PROJECT/PROPERTY: VIDETTE CLAIM		
TITLE: SOIL GEOCHEMICAL SURVEY GOLD		
PREP BY: JSK	NTS No: 92P/2W	DATE OWN: 88-3-8
OWN BY: MBL/SS	AREA: CLINTON MINING DIVISION	DATE REVISED:
SCALE: 1:5000		DRAWING No: G68-7-3