

LOG NO: 0321	RD.
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VIDETTE LAKE PROPERTY
(CLINTON CLAIMS)
SOUTH CENTRAL B.C. (92P/2W)

REPORT ON DRILLING
PERFORMED IN 1987

FILMED

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,179

REPORT ON DRILLING

ON THE
CLINTON CLAIMS

CLINTON MINING DIVISION

N. T. S. MAP: 92 P/2W

(Centered at approximately)

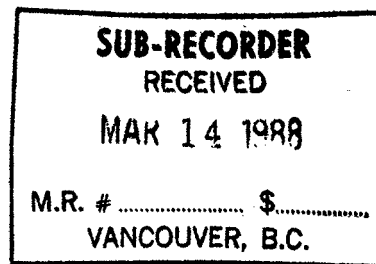
NORTHINGS: 5 665 000 N.

EASTINGS: 649 000 E.

ELEVATION: 960 m

LATITUDE: 51^o 09'

LONGITUDE: 120^o 54'



OWNED AND OPERATED BY: LAKEWOOD MINING CO. LTD; GREEN
VALLEY MINE INC; MENIKA MINING LTD.
(N.P.L.).

CONSULTANT: MORRIS GEOLOGICAL CO. LTD.

AUTHOR: R. J. MORRIS

DATE: February 1988

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SUMMARY AND CONCLUSIONS

The Vidette Lake property is located at the boundary of the Thompson and Cariboo Plateaus within the Interior Plateau of south central British Columbia, 65 kilometers northwest of Kamloops.

The property consists of 100 units owned by Charles Boitard and Vic Doucet and covers an area from Snohoosh and Marshy Lakes in the south to Vidette Lake in the north.

Portions of the property were mapped and tested by soil-sampling geochemistry and an induced polarization survey in 1982. In 1983 an access road was constructed and four diamond drill holes were completed. In 1987 three diamond drill holes were completed to further test a coincidental I.P. and geochemistry anomaly.

The target of exploration is quartz veining which carries gold and copper. The old Vidette Lake gold mine, located 1.4 kilometers to the northwest, produced approximately 1 027 000 grams (30,000 oz.) of gold from 49 000 tonnes of ore between 1930 and 1940. Gold mineralization at the Vidette Lake mine consists of narrow, but fairly continuous, quartz veins in greenstone of the Nicola Group.

A threshold value of 1 995 p.p.b. gold has been determined from 69 analyses completed in 1987. Two samples carried values greater than the threshold. These drill intercepts are considered very important as both are in quartz veins and stringers, similar material to ore at Vidette Lake mine.

It is recommended that more geological mapping and diamond drilling be conducted on the property. A program including 1 500 meters of drilling, assays and mapping for a total of \$150,000.--is proposed.

INTRODUCTION

Location and Access:

The Clinton mineral claims are located in south central British Columbia, 65 kilometers northwest of Kamloops and 48 kilometers north of Savona (Figure 1). The claims are on the west side of Vidette Lake at an approximate elevation of 960 meters.

Access to the claims is via a good forestry maintenance road which connects Moose Creek to Loon Lake. The road to the claims leaves the main access approximately one kilometer north of Moose Creek and parallels the Deadman River Valley on the west bench.

Claim Status:

The Vidette Lake property comprises 100 units including:

TABLE 1 CLAIM STATUS

<u>NAME</u>	<u>NO. OF UNITS</u>	<u>RECORD NO.</u>	<u>EXPIRY DATE</u>	<u>OWNER</u>
Topo	6	2182	April 15, 1988	Vic Doucet
Clinton 1-3	12	1182-4	January 13, 1988	C. Boitard
Vito	8	1243	September 20, 1988	C. Boitard
Ester 1-3	3	1244-6	September 20-21, 1988	C. Boitard
Norkam 1-4	66	1174-7	December 21, 1987	C. Boitard
Clinton 4,5	2	2318,2319	August 6, 1988	C. Boitard
Link 1-3	3	2156-2158	March 19, 1988	Vic Doucet

An additional three years has been applied for on each of the claims; as per "Statement of Exploration and Development" to December 15, 1987.

Summary of Previous Work:

The area has been mapped by the Geological Survey of Canada, Cockfield (1935) and Campbell and Tipper (1971). The B.C. Ministry of Mines refers to the area on several occasions because of the former Vidette Gold Mine, Stevenson (1936) and Mitchell (1939, 40).

The Clinton claims have been explored since 1982 including:

TABLE 2 SUMMARY OF PREVIOUS WORK

- 1982 - Geochemistry
 - soil sampling; 10-20 meter grid spacing
 - 475 soil samples
 - 13 rock samples
- Geophysics
 - I.P. survey; 6.0 km
 - 50 meter line spacing, 20 meter stations
- Geological mapping and test pits (4)

- 1983 - Road construction - 8 km
- Diamond drilling
 - 4 holes
 - 468 meters
- Core sampling - 71 samples

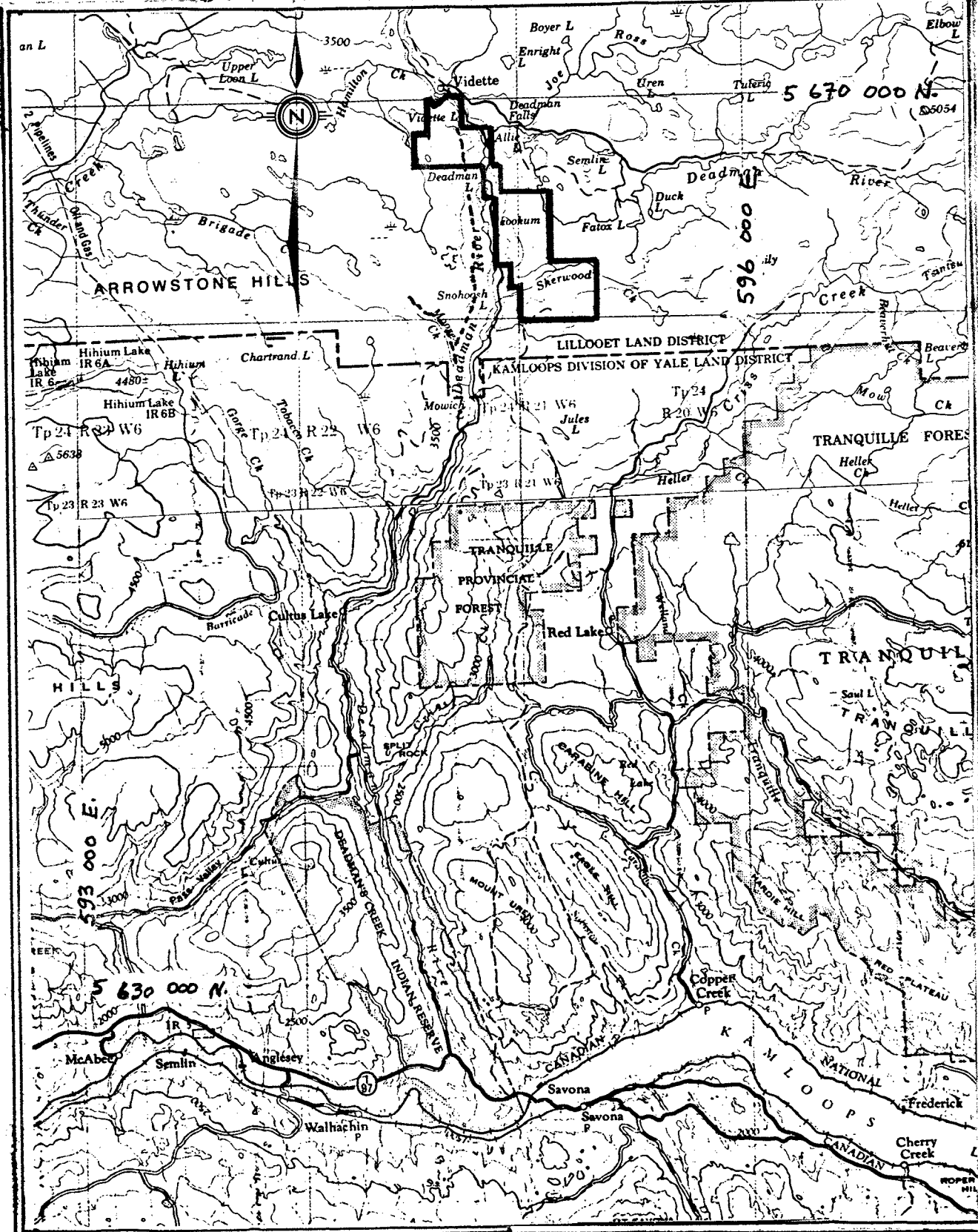
Scope and Objectives of 1987 Exploration:

Following Allen's (1984) recommendations, more diamond drilling was conducted on the Clinton 1 claim. The drilling was to determine the cause of coincident I.P. and geochemistry anomalies identified in 1983.

Summary of 1987 Work:

Three diamond drill holes were completed for a total of 685.8 meters. All of the core was logged and 69 core samples were analyzed.

Larry Sookochoff and Paul Bennett of Sookochoff Consultants Ltd. managed the field operation and did the majority of the core logging and sampling. The author visited the property October 25 to finish core logging. November 30 the author logged core stored at Charles Boitard's home in Vancouver.



LEGEND

---- ACCESS ROAD

SCALE = 1:250 000



KILOMETERS

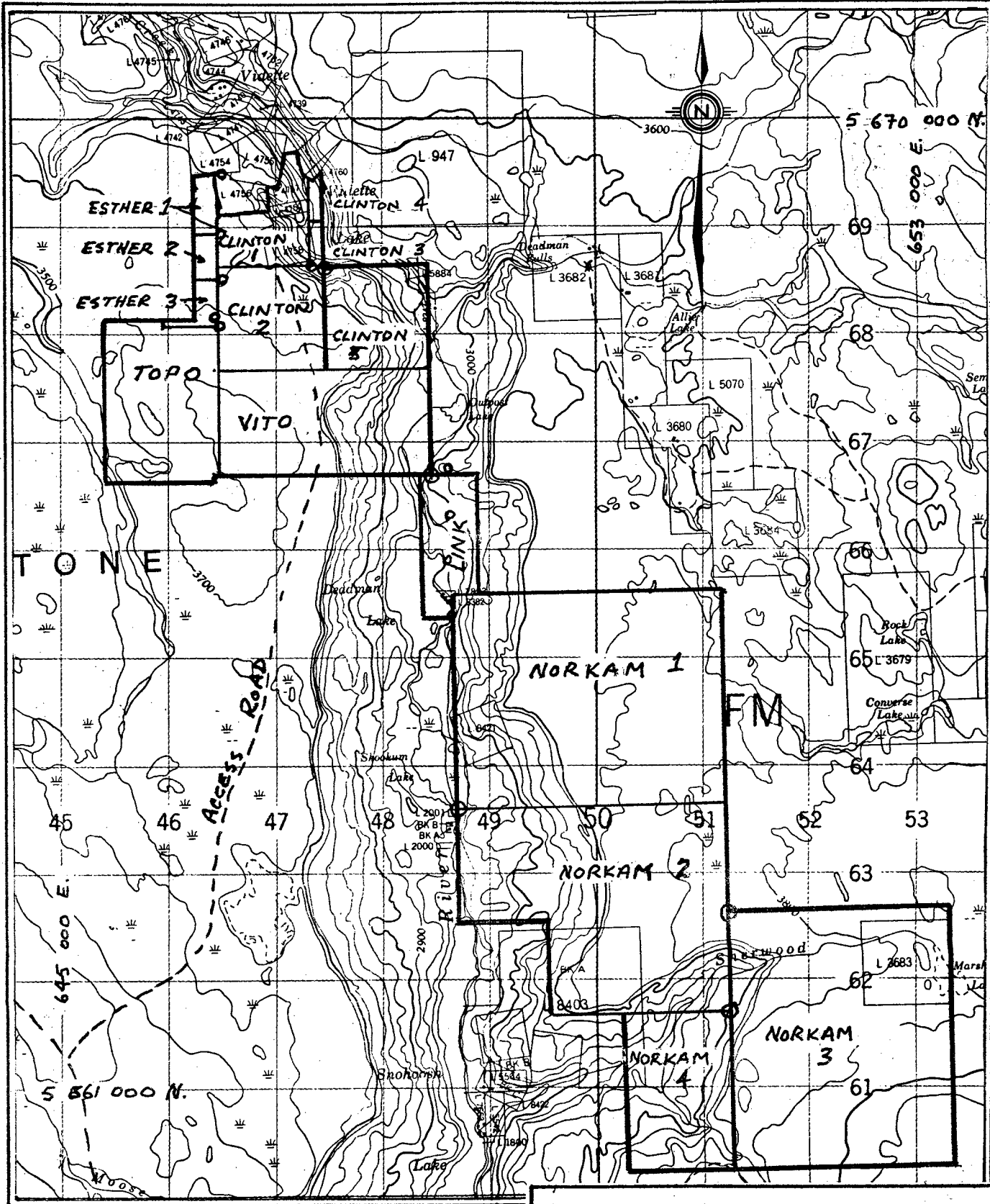
Morris Geological Co. Ltd.

VIDETTE LAKE PROPERTY

INDEX MAP

DRAWN BY: *RJM* DATE: 22-03-09
 AUTHOR: R.J. MORRIS SCALE: 1:250 000

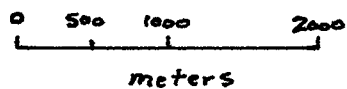
FIG. 1



LEGEND

- L.C.P.
- Access Road

SCALE = 1 : 50 000



Morris Geological Co. Ltd.

VIDETTE LAKE PROPERTY

LOCATION MAP

DRAWN BY: *RJM* DATE: *88-03-08*
 AUTHOR: R.J. MORRIS SCALE: 1 : 50 000

FIG. 2

GEOLOGY:

General Geology:

The Vidette Lake area is underlain mainly by plateau basalts of Miocene and Pliocene age. These basalts have been cut by the Deadman River to expose Upper Triassic Nicola Group volcanic rocks and related intrusions. The intrusives consist of dykes and small plugs of feldspar porphyry varying from granitic to monzonitic in composition.

Gold mineralization in the Vidette Lake area consists of narrow, but fairly continuous, quartz veins in greenstone of the Nicola Group. The veins strike northwesterly and dip 45 to 70 degrees to the northeast. They are fissure fillings that may or may not be accompanied by wall rock shearing. Mineralization consists of quartz and pyrite, chalcopyrite and local tellurides. High grade gold values occur with chalcopyrite in shoots averaging 36 centimeters in width. Post-mineralization faults generally strike east-west, northwest and northeasterly (from; Cockfield, 1935 and Stevenson, 1936).

Detailed Geology:

The Clinton claims are underlain by Nicola Group volcanic rocks, consisting of grey to green, augite andesite. Hornblende monzonite - quartz monzonite has been noted as float and in sub-outcrop. Plateau basalts occur along the west side of the claims.

Fracture controlled pyrite and local shearing has been noted in the andesite. Allen (1982) proposes that the Vidette Lake valley is a major structure which would parallel vein structures in the Vidette mine. He also suggests that the small gully, in the southeast corner of the Clinton 1 claim, is a fault, as some geochemical and geophysical features are terminated or offset near it.

Pyrite is widespread on the claims, being up to 7% of the andesite and quartz monzonite. It occurs as fracture filling and disseminations. Chalcopyrite and malachite occur as minor constituents in fractures.

Quartz veins are reported up to 20 centimeters wide. They are irregular, steeply dipping, trend northwesterly, and contain minor pyrite. More commonly the veins are 0.1 to 5 centimeters wide, and barren (from: Allen, 1982).

Assay Results:

A total of 69 samples were collected in 1987, all from drill core. Appendix 2 lists the assay results for all of the samples, while Appendix 3 summarizes the laboratory procedures.

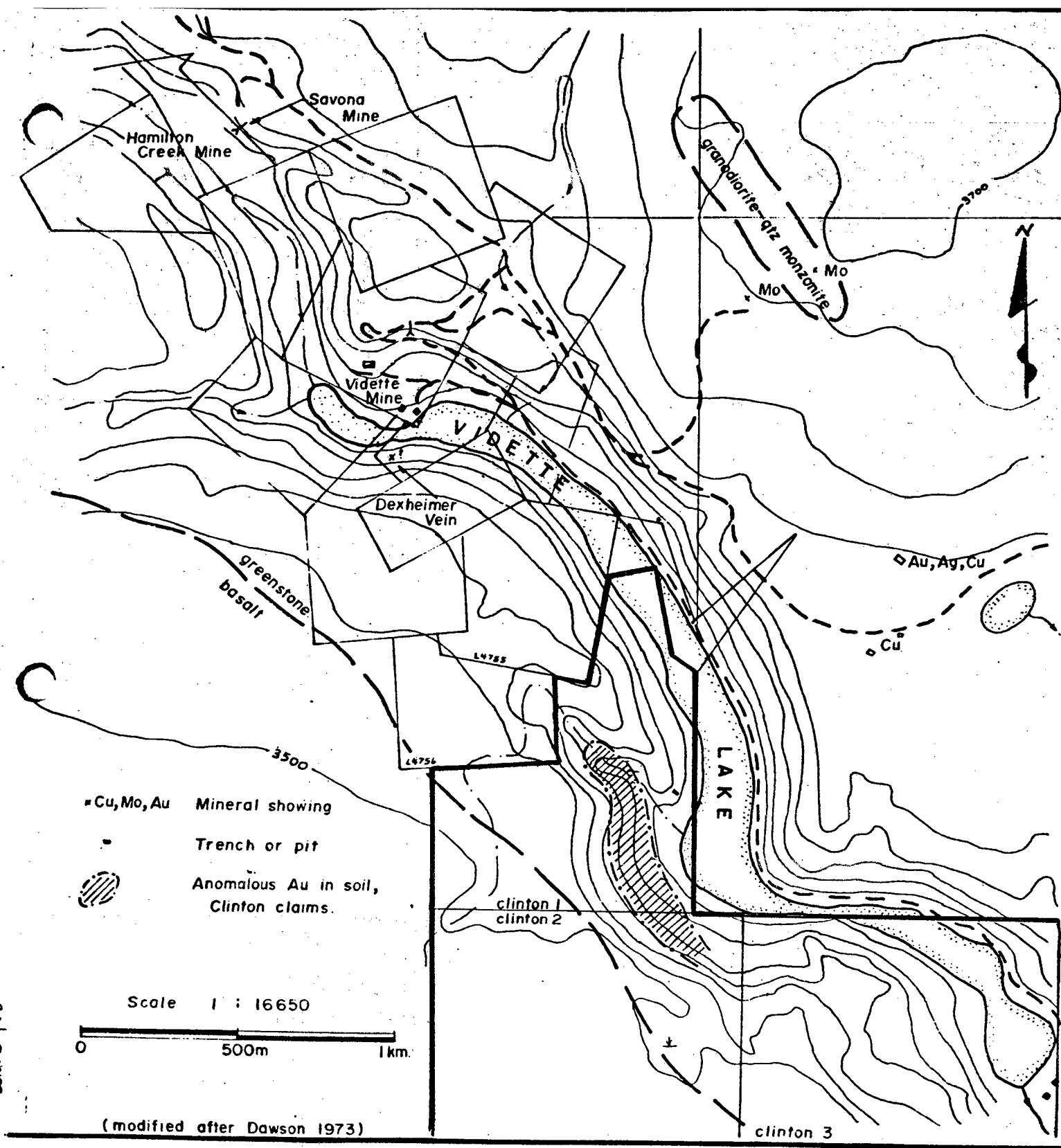
Figures 4 and 5 show the distribution of values. Figure 4 shows a highly skewed distribution with the majority of the samples having low values. Figure 5 shows the log of the gold values plotted against the cumulative frequency. Two populations are apparent, a normal and an anomalous population. The abscissa of the breaking point indicates a value of 70 p.p.b. Au (inverse log 1.85) while the 2.5% frequency level has a value of 1 995 p.p.b. Au (inverse log 3.3). The threshold value is 1 995 p.p.b. Au but the sample set indicates a positive distribution with an excess of values over the background population.

Only two samples are above the threshold value, number 9194 at 2 940 p.p.b. Au, (drill hole 87-2, 149.7-150.3 m) and number 11558 at 4 375 p.p.b. Au, (drill hole 87-3, 229.5-229.8). These values represent 0.086 and 0.128 oz/ton gold respectively.

Sample 9194 is from a quartz vein with chlorite fragments, disseminated pyrite and traces of chalcopyrite. Sample 11558 is from quartz stringers with light pyrite.

Core Storage:

Drill core from the three 1987 holes is stored at both the home of Charles Boitard, in Vancouver, and at the drill sites. The core remaining in the field had been partially vandalized as of October 25th. At least twelve boxes of core had been dumped and the boxes used to gain traction for a vehicle to go up a steep hill. No attempt was made to organize the dumped core.



(modified after Dawson 1973)

- taken from: Allen, 1982

Morris Geological Co. Ltd.		
VIDETTE LAKE PROPERTY		
<u>GENERAL GEOLOGY</u>		
DRAWN BY: <i>RJM</i>	DATE: 88-03-09	
AUTHOR: R.J. MORRIS	SCALE:	
		FIG. 3

before p. 8

FREQUENCY DISTRIBUTION

GOLD (p.p.b.)

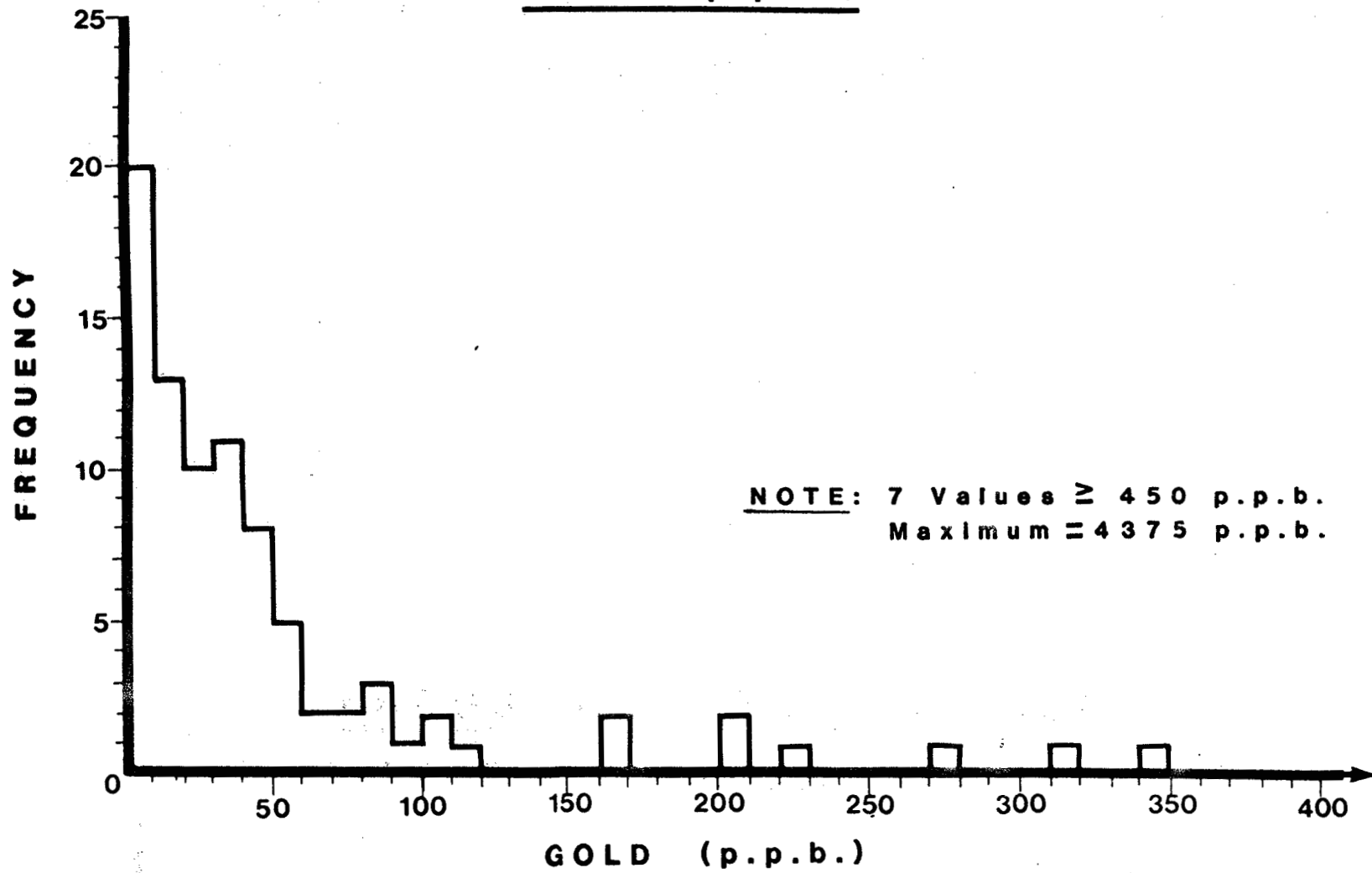


FIG. 4

CUMULATIVE FREQUENCY DISTRIBUTION - GOLD

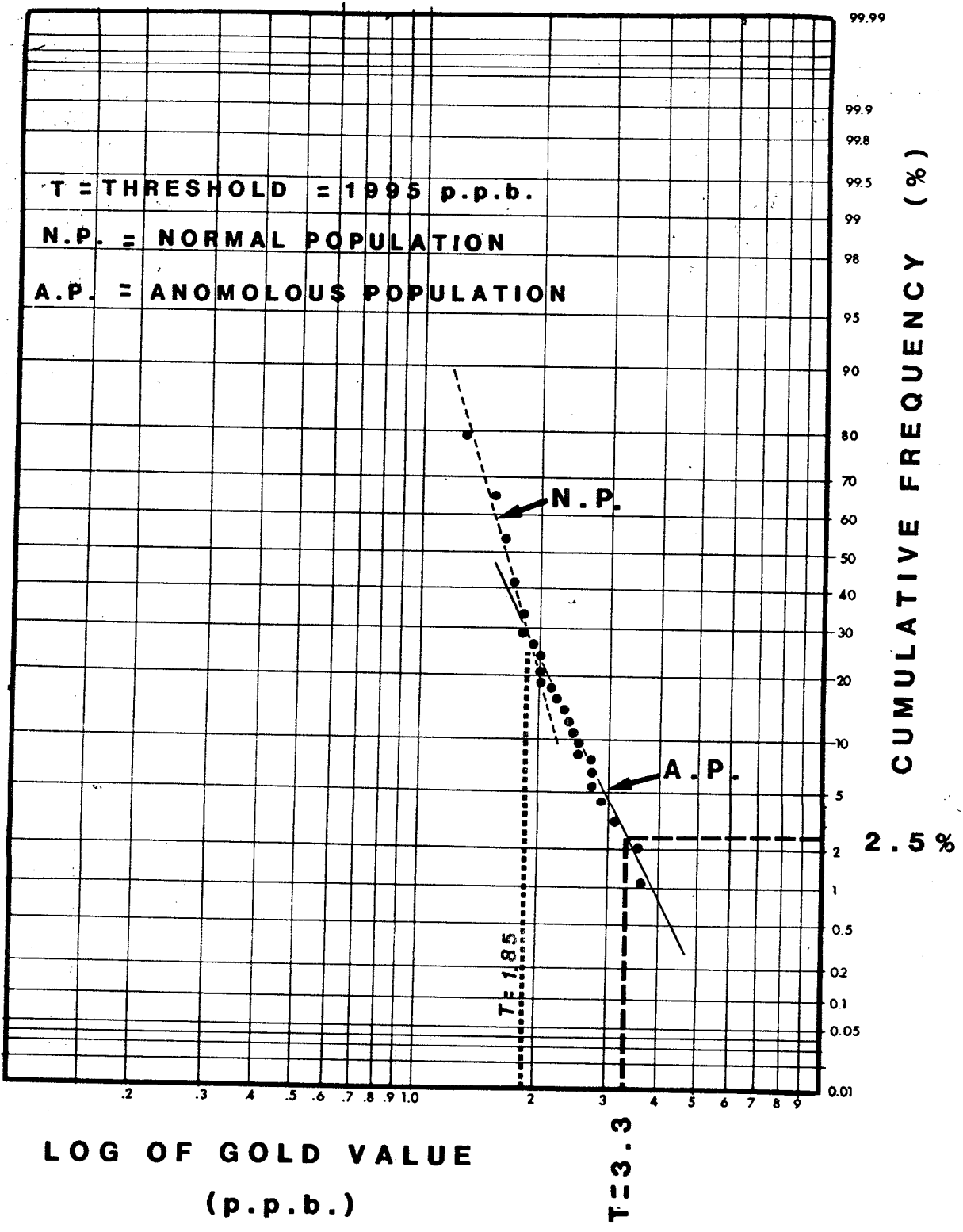
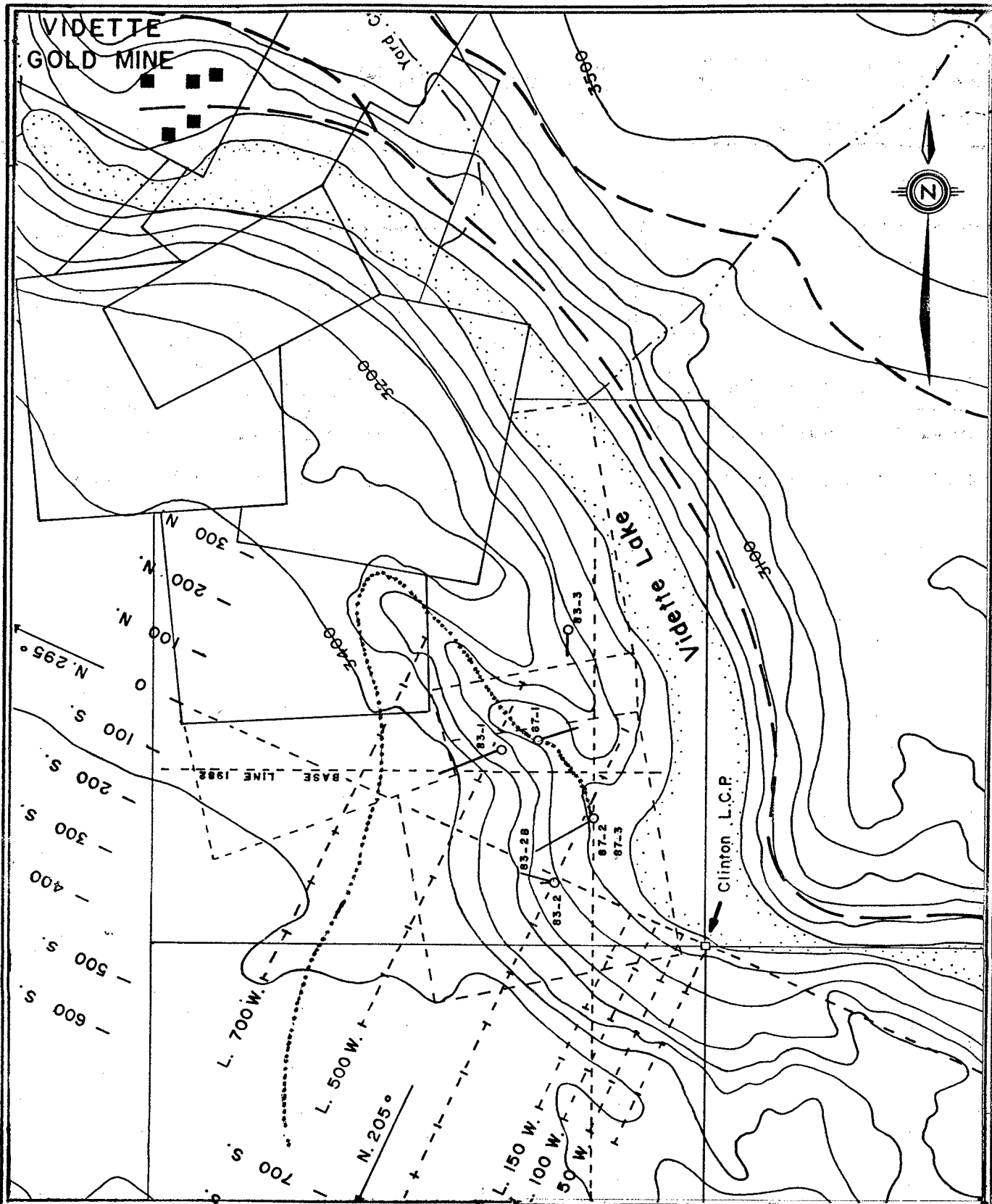


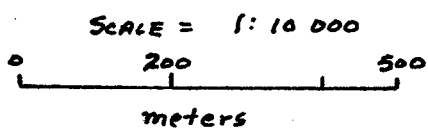
FIG. 5

PAGE 10



LEGEND

- DRILL HOLE COLLAR
- HOLE PROJECTION
- L.C.P.
- ACCESS ROAD (Approx.)



<i>Morris Geological Co. Ltd.</i>	
VIDETTE LAKE PROPERTY	
DRILL HOLE LOCATION MAP	
DRAWN BY: RJM	DATE: 28-03-69
AUTHOR: R.J. MORRIS	SCALE: 1:10 000
FIG. 6	

RECOMMENDATIONS

Because of the two important intercepts in drill holes 87-2 and 87-3 it is recommended that detailed geological mapping be undertaken on the Clinton 1, 3, 4 and 5 claims and further diamond drilling in the 87-2, 3 area.

The proposed program should include the following:

A) Diamond drilling: 1 500 m x \$80/m	\$120 000.--
B) Assay: 200 x \$10	2 000.--
C) Support: site construction, water	<u>10 000.--</u>
SUB TOTAL	\$132 000.--
Contingency	8 000.--
Geological Management	<u>10 000.--</u>
TOTAL	<u>\$150 000.--</u> =====

ITEMIZED COST STATEMENT

A summary of 1987 costs includes:

Diamond drilling:	\$ 44 408.10
Bulldozer rental:	5 511.--
Assay:	500.--
Report preparation:	2 500.--
P.A.C.:	<u>3 800.--</u>

TOTAL = \$ 56 719.10
=====

STATEMENT OF QUALIFICATIONS

I, Robert J. Morris, President of Morris Geological Co. Ltd., Consultant Geologist, do declare:

- THAT I graduated as a Geologist from the University of British Columbia, Vancouver, with a degree of Bachelor of Science in 1973.
- THAT I graduated as a Geologist from Queen's University, Kingston, with a degree of Master of Science in 1978.
- THAT I am a Fellow of the Geological Association of Canada.
- THAT I have no interest, nor expect any, in the Clinton, Norkan, Esther, Vito, Link, nor Topo claims.
- THAT I personally wrote and supervised the preparation of this report.

FERNIE, B.C.

R. J. MORRIS, M.Sc.

R. J. Morris

88.03.10

CERTIFICATE

I, Laurence Sookochoff, of the city of Vancouver, in the Province of British Columbia, do hereby certify:

That I am a Consulting Geologist with offices at 609-837 West Hastings St., Vancouver, V6C 1B6

I further certify that:

1. I am a graduate of the University of British Columbia (1966) and hold a B.Sc. degree in Geology.
2. I have been practising my profession for the past twenty-one years.
3. I am registered with the Association of Professional Engineers of British Columbia.

REFERENCES

- Allen, D. G. and MacQuarrie, D.R., 1982. Summary report on the induced polarization, geological and geochemical surveys, Clinton claims; Consultants report for Lakewood Mining Co. Ltd. and Green Valley Mine Inc.
- Allen, D. G. 1984. 1983 Drilling report on the Vidette Lake property (Clinton Claims); Consultants report for Lakewood Mining Co. Ltd., Green Valley Mine Inc. and Menika Mining Ltd.
- Campbell, R. and Tipper, H. W. 1971. Geology of Bonaparte Lake map area, B.C. G.S.C. Memoir 363.
- Cockfield, W. E. 1935. Lode gold deposits of Fairview Camp, Camp McKinney, and Vidette Lake area and the Dividend-Lakeview property near Osoyoos, B.C. G.S.C. Memoir 179.
- Mitchell, J.A. 1939. B.C. Ministry of Mines Annual Report, pp. 41, 42, and 74.
- Mitchell, J.A. 1940. B.C. Ministry of Mines Annual Report, pp. 27 and 60.
- Stevenson, J.S. 1936. Vidette Lake area. B.C. Ministry of Mines Annual Report, pp. 36-43.

List of Abbreviations for Drill Hole Descriptions

abn.	= abundant
carb.	= carbonate
diss.	= disseminated
fract.	= fracture
grnst.	= greenstone
lt.	= light
mata. volc.	= metamorphosed volcanics
med.	= medium
mod.	= moderate
por.	= porphyry
qz.	= quartz
silic.	= siliceous
text.	= texture

DRILL HOLE 87-1

Azim = 65^o

Core Size = NQ

Dip = -60^o

No dip tests completed

Total Depth = 190.80 m

<u>Depth</u> <u>to</u>	<u>Sample</u> <u>No.</u>	<u>Description</u>
14.3		- <u>casing</u>
17.4		- <u>meta volc.</u> - grnst., light epidote, pyrite (diss) 17.4-18.6 = fault zone, heavily fractured 18.6-18.9 = gouge 18.9-19.5 = schistose, irreg. and diss. calcite, lt. pyrite (diss.) 19.5-20.4 = chloritic, lighter colour
157.3		- <u>greenstone</u> , pods of epidote, lt.-med. carbonate 22.6-26.5 = more carb., lt. pyrite 26.2-26.5 = more epidote 26.5-29.3 = patchy epidote, speckled text. diss. pyrite on fracture planes 34.9-35.4 = fault zone, mylonitic breccia 35.4-40.5 = speckled epidote, lt. calcite stringers 40.5-51.2 = greater pyrite, epidote stringers 51.2-57.9 = greater epidote 60.7 = heavy pyrite on fractures 69.8-75.9 = schistose and silicified 91.4 = mod. epidote
	9168-9171	125.6-127.7 = mylonite, breccia, mod. to heavy diss. pyrite in mylonite 127.7-135.6 = mod. red hematite on fractures, mod. epidote, calcite stringers 135.6 = broken core, dark chlorite, poddy epidote 142.0-144.2 = mylonite, mylonite schist, gouge, lt. blebs pyrite, lt. breccia.

DRILL HOLE 87-1 (CON'D)

<u>Depth</u> <u>To</u>	<u>Sample</u> <u>No.</u>	<u>Description</u>
		144.2 = dark, chloritic matrix- locally pseudo dioritic, with epidote blebs and stringers
		147.2-145.7 = heavy pyrite on footwall of fault.
158.8		- <u>feldspar porphyry</u> , chloritic, lt. red hematite
190.8		- <u>greenstone</u>
	9172-9174	163.1 = breccia 161.5-165.5 = breccia and schistose, med.to heavy pyrite
	9175-9176	165.5-165.8 = fault gouge
	9177-9180	165.8-169.2 = epidote and calcite stringers, lt. to med. diss pyrite
		169.2-170.7 = fault zone, gouge, breccia, no pyrite
	9181-9186	170.7-175.3 = with pseudo diorite text., calcite flooding, best pyrite zone
		175.3-175.6 = mylonite and gouge
		175.1 = schistose
		175.9 = breccia bands
		178.6-179.8 = no epidote, pseudo diorite text, lt. to mod. pyrite

SAMPLE SUMMARY; DRILL HOLE 87-1

<u>No.</u>	<u>From</u>	<u>To</u>	<u>Au (p.p.b.)</u>
9168	125.6	126.5	74
9169	126.5	127.4	37
9170	127.4	128.3	12
9171	128.3	129.2	11
9172	160.6	161.8	56
9173	161.8	163.1	88
9174	163.1	164.3	54
9175	164.3	164.9	41
9176	164.9	166.1	28
9177	166.1	167.3	11
9178	167.3	168.6	16
9179	168.6	169.0	15
9180	169.0	170.7	53
9181	170.7	171.9	7
9182	171.9	172.2	3
9183	172.2	172.8	1
9184	172.8	174.3	4
9185	174.3	175.3	6
9186	175.3	175.9	4
871-408	124.4		41
871-475	144.8		17
871-503	153.3		30
871-533	162.5		80
871-571	174.0		6
871-595	181.4		23

DRILL HOLE 87-2

Azim = 240^o

Core Size = NQ

Dip = -50^o

No dip tests completed

Total Depth = 205.44 m

<u>Depth</u> <u>To</u>	<u>Sample</u> <u>No.</u>	<u>Description</u>
12.2		- casing
65.5		- <u>greenstone</u> , highly chloritic, blebs of epidote, diss. and coarse pyrite 22.3-25.3 = porphyritic 25.3-29.9 = aphanitic, patchy pyrite, local silicification 29.9-65.5 = with amphibole porphyrics 35.4-40.8 = lesser epidote, abn. red hematite 40.8-46.6 = patchy epidote veins 50.6 = bluish quartz 53.3 = vein with lt. pyrite 61.0-62.8 = vuggy qz.-carb. veins
69.2		- <u>dacite</u> , aphanitic, greenish-grey, mod. diss. pyrite lt-mod. crackle breccia
73.2		- <u>greenstone</u> , amphibole porphyry, lt. pyrite
75.6		- <u>dacite</u> , more epidote, chlorite
85.3		- <u>greenstone</u> , feldspar porphyry, massive 85.6-90.7 = more epidote and brecciation 88.7-89.0 = gouge 89.9 = local brecciation
99.1		- <u>greenstone</u> , fine, breccia, locally silicified 90.7-102.1 = breccia 90.7-92.4 = silicified, schistose
160.0		- <u>greenstone</u> , feldspar porphyry, abn. epidote, red hematite, pyrite

DRILL HOLE 87-2 (CON'D)

<u>Depth</u> <u>To</u>	<u>Sample</u> <u>No.</u>	<u>Description</u>
	102.1-107.6	= broken, gouge
	111.9-112.2	= broken, gouge
	118.9-124.4	= silicified, diorite text., local hornblende
	124.4-130.1	= more silicified
	130.1-136.2	= more gouge, mylonite
	141.3-141.7	= mylonite, gouge
	141.7	= with quartz veins
	143.3	= quartz with pyrite
	147.2	= mylonite, lt. crenulated
	149.7-150.3	= qz. with chlorite fragments diss. pyrite, bleb chalcopyrite
	150.3-151.2	= mylonite
	151.5-157.6	= schistose, breccia, qz.- carb., lt. diss. pyrite
166.1		- <u>greenstone</u> , amphibole porphyry, chloritic
173.7		- <u>greenstone</u> , meta.
179.8		- <u>greenstone</u> , silicified, schistose
193.2		- <u>greenstone</u> , feldspar porphyry, blebs and stringers of epidote
205.4		- <u>meta. dacite</u> , pinkish, aphanitic, mod. crackle breccia
	202.7	= silicified, mod. diss. pyrite

SAMPLE SUMMARY; DRILL HOLE 87-2

<u>No.</u>	<u>FROM</u>	<u>TO</u>	<u>Au (p.p.b.)</u>
87-2-54	16.5		37
87-2-116	35.4		6
87-2-166	50.6		41
87-2-220	67.1		13
87-2-260	79.2		67
87-2-324	98.8		10
87-2-577	175.9		6
87-2-634	193.2		45
87-2-674	205.4		56
9187	141.4	141.7	850
9188	141.7	143.3	460
9189	143.3	144.5	116
9190	144.5	146.3	32
9191	146.3	147.4	450
9192	147.4	149.0	320
9193	149.0	149.7	1310
9194	149.7	150.3	2940
9195	150.3	151.5	201
9196	151.5	153.0	112
9197	153.0	154.2	65
9198	154.2	155.0	26
9199	155.0	155.5	110
9200	155.5	156.7	480
9201	156.7	157.4	280

DRILL HOLE 87-3

Azim = 240

Core Size = NQ

Dip = -75

No dip tests completed

Total Depth = 289.56 m

<u>Depth</u> <u>To</u>	<u>Sample</u> <u>No.</u>	<u>DESCRIPTION</u>
75.4	-	<u>missing core</u>
94.8	-	<u>greenstone</u> , qz. veins, minor calcite
100.4	-	<u>greenstone</u> , por., abn. pyrite 116.7-118.3 = fract. zone
153.3	-	<u>missing core</u>
205.1	-	<u>greenstone</u> , coarse crystalline, some epidote 153.3-154.2 = gouge zone 153.3-154.8 = abn. hematite 154.4 = fault?, abn. quartz and pyrite (12 cm) 158.2 = fract. healed with calcite and quartz, brecciated, vugy 162.8 = volc. clastic flow? (6 cm) 166.4-168.2 = porphyry dyke 167.3-171.6 = abn. hematite 200.6 = cataclastic zone (18 cm)
206.7	-	<u>volcanics</u> , green and red, locally siliceous
241.7	-	<u>greenstone</u> , slightly siliceous to locally heavily silic., local lt. pyrite 208.5 = red hematite zone 208.8 = quartz vein, lt. to mod pyrite 209.1 = more silic. 211.2 = lt. epidote 217.6 = red hematite 223.4 = quartz stringers, lt. pyrite 224.6-226.3 = slightly bleached, lt. to mod. pyrite, lt. silic. stringers, lt. pyrite

DRILL HOLE 87-3 (CON'D)

<u>Depth</u> <u>To</u>	<u>Sample</u> <u>No.</u>	<u>DESCRIPTION</u>
226.0-229.5	=	lt. silic., some red hematite, small quartz stringers, lt. pyrite
240.8-241.6	=	heavily silic., lt. pyrite
241.7-242.8	=	bleached
244.1-246.1	=	bleached, loc. hematite, lt. silic., lt. pyrite
254.4-255.4	=	bleached, lt. pyrite, lt. silic.
262.0-263.3	=	slightly serpentized, lt. pyrite, local gouge
274.2-275.7	=	lt. bleached, lt. calcite, lt. to mod. pyrite, lt. silic.
275.7-281.6	=	bleached, lt. quartz, lt. pyrite
282.4-282.7	=	gouge, lt. calcite, serpentized
282.7-289.6	=	local serpentine, red hematite

SAMPLE SUMMARY; DRILL HOLE 87-3

<u>No.</u>	<u>FROM</u>	<u>TO</u>	<u>Au (p.p.b)</u>
11551	204.1	204.7	30
11552	208.5	209.2	32
11553	212.1	212.8	28
11554	223.1	223.6	14
11555, 56	224.6	226.3	29, 19
11557	226.8	227.2	10
11558	229.5	229.8	4 375
11559	240.8	241.6	34
11560	241.7	242.8	23
11561	244.1	244.9	15
11562	244.9	246.1	50
11563	254.4	255.4	46
11564	253.6	254.1	230
11566, 67	274.2	275.7	31, 36
11568	275.7	276.8	98
11569	278.0	278.6	41
11570	280.4	281.6	39
11571	282.4	282.7	47

GEOCHEMICAL ICP ANALYSIS

.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 CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: JULY 10 1987

DATE REPORT MAILED: *July 17/87*ASSAYER: *D. Toyer*. DEAN TOYE, CERTIFIED B.C. ASSAYER

SOOKOCHOFF CONSULTANTS PROJECT - CLINTON File # 87-2338

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#
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	PPM	PPM	
9168	4	347	4	56	.4	5	16	630	4.17	14	5	ND	1	195	1	3	2	93	3.38	.094	2	8	1.78	25	.23	2	1.76	.01	.11	1	74
9169	1	304	6	61	.4	7	18	651	4.46	13	5	ND	1	185	1	3	2	89	4.04	.095	2	11	1.72	40	.24	2	1.84	.01	.19	1	37
9170	2	155	10	61	.3	14	17	813	5.35	9	5	ND	1	143	1	2	2	142	3.96	.090	2	45	3.10	102	.22	2	2.54	.01	.09	1	12
9171	2	171	7	75	.2	12	15	801	5.11	13	5	ND	1	134	1	2	2	132	4.16	.087	2	40	2.83	81	.23	2	2.41	.01	.29	1	11
9172	3	144	3	65	.4	13	24	703	5.06	10	8	ND	1	195	1	2	2	136	3.12	.089	2	28	2.78	21	.28	2	2.00	.01	.08	2	36
9173	3	39	11	68	.4	30	24	1065	5.80	13	5	ND	1	140	1	2	2	137	7.08	.066	2	171	3.44	17	.22	2	2.32	.12	.03	3	88
9174	2	106	2	70	.3	27	23	989	5.46	16	5	ND	1	110	1	2	2	121	4.54	.078	2	137	3.38	27	.20	2	2.20	.01	.03	1	54
9175	3	194	7	87	.4	21	25	1066	5.27	19	8	ND	1	140	1	7	2	131	4.12	.090	3	85	3.15	15	.25	2	2.47	.01	.05	1	41
9176	2	50	2	43	.2	14	13	635	3.70	9	5	ND	1	97	1	3	2	72	3.76	.078	3	32	2.06	37	.04	2	1.78	.01	.13	2	28
9177	3	101	3	45	.1	17	17	880	5.51	14	5	ND	1	115	1	3	2	159	5.05	.070	3	49	3.16	18	.20	2	2.67	.03	.06	2	11
9178	3	94	2	45	.2	17	17	838	5.50	7	5	ND	1	104	1	2	2	176	4.33	.069	3	92	3.12	18	.20	2	2.54	.01	.03	1	16
9179	2	86	4	48	.4	18	19	831	5.27	12	5	ND	1	93	1	2	2	168	4.53	.071	3	60	3.08	16	.13	2	2.46	.01	.04	3	15
9180	2	75	2	40	.3	13	10	505	2.96	9	8	ND	1	114	1	2	2	35	4.44	.090	4	19	1.22	42	.01	4	1.30	.01	.21	1	53
9181	1	107	3	48	.2	17	24	941	6.88	11	5	ND	1	155	1	13	2	194	6.62	.083	7	21	3.11	73	.03	2	2.67	.11	.06	1	7
9182	1	165	3	35	.1	14	16	752	5.62	2	5	ND	1	153	1	7	2	115	6.34	.095	7	12	2.14	58	.01	2	2.14	.10	.15	1	3
9183	2	186	4	40	.3	17	18	822	5.69	7	5	ND	2	161	1	9	2	166	7.11	.131	7	50	2.68	54	.07	2	2.20	.13	.06	2	1
9184	15	180	2	46	.1	16	23	738	5.69	8	5	ND	1	142	1	7	2	187	6.34	.173	8	57	2.72	40	.05	2	2.11	.11	.04	1	4
9185	2	162	4	43	.2	12	22	713	5.62	13	5	ND	1	131	1	11	2	155	5.97	.165	7	20	2.57	19	.02	2	2.22	.09	.12	2	6
9186	1	144	3	42	.1	14	18	678	5.22	15	5	ND	1	156	1	7	2	118	6.03	.122	5	15	2.04	8	.07	3	2.02	.09	.13	1	4
STD C/AU-R	18	57	38	134	7.1	69	29	975	4.21	40	21	7	35	50	18	14	19	59	.52	.091	40	58	.93	182	.09	35	1.82	.07	.14	13	485
87-1-408	2	146	7	50	.3	23	35	948	4.82	9	5	ND	1	172	1	2	2	134	6.30	.108	2	41	2.77	20	.29	2	2.12	.10	.09	1	41
87-1-475	2	22	7	52	.2	9	23	791	5.10	13	5	ND	1	120	1	4	2	122	2.97	.156	8	13	2.19	54	.10	3	1.88	.01	.23	2	17
87-1-503	2	291	4	47	.2	28	21	512	3.54	4	5	ND	1	111	1	2	2	96	2.07	.111	2	182	2.12	153	.33	2	1.77	.04	.78	1	30
87-1-533	5	23	10	62	.3	33	39	1016	5.99	11	5	ND	1	159	1	2	2	148	7.47	.078	3	183	3.10	20	.29	2	1.94	.15	.02	1	80
87-1-571	25	261	9	63	.3	21	25	728	5.86	9	5	ND	1	137	1	2	2	235	5.78	.204	10	74	2.95	28	.03	2	2.17	.09	.05	1	6
87-1-595	5	135	2	38	.1	21	40	421	4.85	6	5	ND	1	124	1	2	2	84	1.36	.129	2	17	2.10	34	.27	3	1.57	.02	.33	1	23

DRILL HOLE 87-1

GEOCHEMICAL ICP ANALYSIS

.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 CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: Core AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: JULY 14 1987

DATE REPORT MAILED: *July 17/87*

ASSAYER: *D. Jeps.* DEAN TOYE, CERTIFIED B.C. ASSAYER

SOOKOCHOFF CONSULTANTS PROJECT - CLINTON File # 87-2398

DRILL HOLE 87-2

SAMPLE#	NO PPM	CU PPM	PB PPM	ZN PPM	AS 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	AUS PPM
87-2-54	6	443	4	50	.6	5	15	627	4.41	4	5	ND	1	112	1	2	2	96	3.15	.094	2	17	2.17	70	.23	5	2.13	.04	.40	3	37
87-2-116	3	282	4	54	.1	8	14	498	3.36	11	5	ND	2	279	1	2	3	96	2.13	.226	8	22	2.04	55	.27	4	2.09	.01	.44	1	6
87-2-166	195	609	2	32	.2	8	20	433	3.49	6	5	ND	1	206	1	2	2	89	2.85	.160	4	19	1.81	98	.21	2	1.61	.03	.18	3	41
87-2-220	14	155	8	30	.1	7	13	425	2.56	6	5	ND	2	95	1	2	2	48	2.03	.098	6	17	1.16	29	.13	2	1.10	.04	.21	4	13
87-2-260	5	250	3	38	.1	8	17	419	4.29	8	5	ND	1	100	1	3	5	97	1.89	.229	2	31	2.24	67	.24	5	1.97	.08	.90	1	67
87-2-324	1	109	2	56	.1	11	16	766	4.33	2	5	ND	1	106	1	2	2	97	3.46	.169	4	39	2.58	80	.17	2	2.11	.02	.43	2	10
87-2-577	3	270	2	49	.1	10	14	872	4.34	7	5	ND	1	138	1	2	2	75	6.48	.153	10	24	2.18	38	.05	3	2.22	.11	.22	2	6
87-2-634	1	122	3	29	.1	5	7	485	1.93	6	5	ND	2	79	1	2	2	15	3.44	.063	7	21	.59	41	.01	3	.77	.01	.28	3	45
87-2-674	6	156	2	28	.3	4	11	511	2.61	3	5	ND	1	76	1	2	2	15	3.95	.106	2	13	.74	58	.10	4	1.13	.01	.37	1	56
9187	19	112	2	55	.2	11	14	701	3.76	9	5	ND	1	113	1	2	2	49	4.41	.077	3	30	1.95	37	.01	2	2.02	.01	.23	1	850
9188	9	59	7	41	.4	8	11	764	2.68	4	5	ND	1	145	1	2	2	22	8.15	.087	5	13	.76	75	.01	4	1.10	.13	.24	2	460
9189	7	135	5	41	.6	10	16	884	4.14	5	7	ND	1	128	1	3	2	44	7.15	.127	5	21	1.78	30	.02	3	1.97	.10	.23	4	161
9190	8	127	9	40	.3	11	18	836	4.45	2	5	ND	1	120	1	2	2	61	6.57	.143	4	28	2.14	79	.04	4	2.28	.09	.23	1	32
9191	7	85	8	36	.1	9	13	586	2.93	4	5	ND	1	148	1	2	2	40	5.88	.096	6	23	1.15	50	.01	3	1.88	.08	.35	1	450
9192	7	103	7	38	.2	9	13	658	2.74	5	7	ND	1	143	1	3	2	26	7.17	.091	5	14	.92	174	.01	2	1.41	.11	.27	1	320
9193	1	13	2	21	.2	1	4	435	1.38	2	5	ND	2	75	1	2	2	6	3.71	.068	7	8	.35	63	.01	2	.71	.01	.24	1	1310
9194	13	122	6	22	.6	6	6	486	1.44	3	5	4	1	93	1	2	2	11	5.50	.049	3	8	.40	37	.01	2	.69	.04	.17	1	2940
9195	4	151	2	64	.4	16	17	942	4.71	8	5	ND	1	143	1	4	2	83	8.59	.087	4	63	2.58	36	.01	3	2.47	.15	.13	5	201
9196	4	157	4	59	.6	19	21	856	5.14	5	9	ND	1	130	1	2	2	99	6.86	.081	3	91	2.79	23	.01	11	2.60	.09	.16	2	112
9197	2	242	13	58	.4	26	19	1088	5.54	4	7	ND	1	172	1	4	2	134	8.71	.075	4	158	3.74	35	.01	3	3.19	.14	.06	2	65
9198	4	192	7	58	.7	24	24	1022	5.53	6	8	ND	1	206	1	3	2	119	7.83	.080	4	141	3.41	43	.01	5	2.99	.12	.08	1	26
9199	6	239	2	33	.3	7	15	628	3.34	7	6	ND	1	122	1	2	2	33	5.67	.119	7	22	1.22	63	.01	4	1.44	.06	.26	1	110
9200	8	59	2	38	.5	6	10	714	2.53	4	5	ND	1	140	1	2	2	25	6.96	.080	6	19	.88	65	.01	2	1.31	.10	.23	1	480
9201	5	79	2	35	.3	7	10	665	2.64	2	5	ND	1	134	1	2	2	29	6.85	.089	6	14	1.04	74	.01	3	1.51	.10	.25	1	280
STD C/AU-R	19	59	41	127	6.8	66	28	945	4.04	41	17	6	32	48	18	16	20	56	.52	.091	38	62	.93	176	.08	36	1.78	.06	.12	13	475

GEOCHEMICAL ICP ANALYSIS

.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 CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: Core AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: AUG 31 1987

DATE REPORT MAILED: *Sept 8/87*

ASSAYER: *D. Toyne* DEAN TOYE, CERTIFIED B.C. ASSAYER

SOOKOCHOFF PROJECT-CLINTON File # 87-3769

DRILL HOLE 87-3

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#
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPB
E 11551	6	241	11	31	.1	20	18	375	3.37	8	5	ND	1	113	1	2	2	75	2.23	.087	3	81	1.40	28	.25	3	1.18	.06	.35	1	30
E 11552	3	135	11	48	.1	10	11	852	2.82	14	5	ND	1	120	1	2	2	41	6.48	.072	3	31	1.22	41	.09	2	1.35	.02	.24	2	32
E 11553	2	231	7	31	.1	8	13	431	3.81	9	6	ND	1	159	1	2	2	81	2.11	.226	7	26	2.08	77	.21	6	1.99	.09	.73	1	28
E 11554	4	187	6	21	.2	19	25	339	3.17	8	5	ND	1	78	1	2	2	73	1.74	.077	2	93	1.43	56	.24	2	1.28	.06	.64	1	14
E 11555	3	295	2	20	.2	6	10	202	2.23	7	5	ND	1	96	1	2	2	40	1.55	.083	7	10	.46	13	.11	2	.55	.05	.09	1	29
E 11556	8	251	9	31	.1	9	11	303	2.77	9	5	ND	1	86	1	2	2	53	2.17	.090	6	27	.78	14	.13	2	.74	.06	.16	1	19
E 11557	7	196	6	94	.1	8	11	227	2.62	5	5	ND	1	98	1	2	2	38	1.44	.078	5	20	.59	14	.12	2	.65	.06	.12	1	10
STD C/AU-R	19	59	39	129	7.0	66	27	1027	3.98	43	22	7	36	47	18	18	20	55	.48	.089	36	55	.88	184	.07	37	1.81	.07	.12	13	510
E 11558	3	355	15	425	3.7	26	20	603	3.86	6	5	3	1	111	3	4	2	86	4.29	.121	4	108	2.37	63	.23	2	1.89	.05	.45	1	4375
E 11559	7	162	10	59	.1	16	14	555	4.19	6	5	ND	1	123	1	2	2	95	2.19	.086	3	48	1.78	48	.24	3	1.60	.06	.24	1	34
E 11560	1	87	8	68	.1	6	5	378	1.79	6	5	ND	2	110	1	2	2	16	2.22	.057	7	9	.50	29	.07	2	.69	.05	.20	1	23
E 11561	1	113	3	49	.1	4	3	290	1.48	5	5	ND	2	109	1	2	2	26	1.00	.052	6	7	.58	19	.08	7	.73	.05	.11	1	15
E 11562	4	91	348	274	8.0	4	5	416	2.05	7	5	ND	1	124	4	12	2	21	2.17	.057	6	7	.57	31	.08	5	.83	.06	.17	1	50
E 11563	1	75	3	15	.1	1	3	574	.81	2	5	ND	2	67	1	2	2	5	5.37	.052	9	1	.17	75	.01	2	.42	.02	.23	1	46
E 11564	2	112	7	34	.3	3	4	983	1.43	9	5	ND	1	91	1	2	2	7	9.89	.044	5	4	.30	87	.01	4	.47	.01	.21	1	230
E 11566	4	149	12	48	.3	23	22	959	4.95	8	5	ND	1	149	1	3	2	119	5.29	.114	6	106	3.17	12	.21	2	2.43	.03	.08	2	31
E 11567	6	192	10	53	.1	15	17	856	3.56	2	5	ND	1	95	1	2	2	82	3.47	.066	5	62	2.06	16	.15	2	1.66	.04	.09	1	36
E 11568	1	243	11	52	.5	5	7	492	2.52	6	5	ND	2	73	1	3	2	19	2.95	.084	6	9	.69	34	.11	3	.86	.04	.27	1	98
E 11569	1	117	9	37	.2	4	6	515	1.96	7	5	ND	1	61	1	2	2	13	2.68	.066	5	12	.60	39	.08	2	.78	.04	.24	1	41
E 11570	1	38	11	36	.1	4	7	472	2.13	3	5	ND	1	88	1	2	2	23	1.85	.057	6	11	.71	30	.08	2	.82	.05	.16	1	39
E 11571	6	321	7	24	.2	17	21	434	3.23	5	5	ND	1	101	1	2	2	52	2.82	.089	3	66	1.26	32	.16	2	1.10	.05	.15	1	47

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
Telephone: 253-3158

1987

Acme Analytical continues to update with mass spectrographic analysis which is now operational. In general, mass spec offers detection limits which are at least 100 fold lower than ICP or flame AA. These detection limits are comparable to graphite furnace AA, but the mass spec can analyze up to 60 elements simultaneously.

Acme has pioneered low cost multi-element ICP analysis which has better detection and precision than AA. Mass spec will further expand the range of elements and isotopes available to mineral exploration programs.

SPACE

Total laboratory, sample preparation and sample storage has been expanded to 12,000 square feet.

EQUIPMENT

1. Our ICP system has been expanded, and a fifth unit has been purchased which will allow us to determine up to 45 elements simultaneously.
2. AA spectrophotometers have been increased to 8.
3. Sample preparation, weighing and dissolution facilities have been increased.
4. A LECO Induction Furnace has been installed for determining Carbon and Sulfur simultaneously in geological and metallurgical samples.
5. An UA3 Laser Fluorometer from Scintrex is now used for determination of U in water to .01 ppb.
6. Two ICP mass spectrographs.

TECHNOLOGY

1. Fire Assay for Ag, Au, Pt, Pd, Rh, Ru & Ir,; the precious metal bead can be analysed by gravimetric, AA, ICP or Mass spec.
2. ICP multi element packages for water, geochem and assay programs have been developed.
3. Lower detection limits for some elements have been achieved by graphite furnace AA.

TECHNICAL ACHIEVEMENTS

1. Background corrected Atomic Absorption analysis of Ag and Au since 1971.
2. Best proven precision, accuracy and price for MoS₂ assays in North America.
3. Pioneered geochemical analysis by ICP at or to better detection limits than AA, including Ag, As, U, Th and W.
4. First to offer Mass spectrographic scan analysis.

PROVEN PERFORMANCE

Our logistical and technical performance for our clients has been demonstrated on the Gambier, Capoose Lake, Trout Lake, Blackdown, Red Mountain, Carollin, Cirque, Minago River, Quesnel River, Terra Swede, Musto and other major projects. We are capable of handling up to 2500 samples per day.

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
Telephone: 253-3158

Suggestions for Effective use of Analytical Services**1. General Sampling**

- A. **Rocks** - In general 1/2 to 2 lb of sample is required. Large boulders should be broken down to chip size with a 20 lb sledge hammer. A representative sample is then taken from these chips. The lab will crush, split and pulverize.
- B. **Cores** - Drill cores should be split into halves for assaying.
- C. **Soils** - The organic "A" horizon gives good base metal responses. Supply about one cup of material in a soil or paper envelope. The soil is treated in one of three methods after drying :-
 - 1) -80 mesh sieving (standard).
 - 2) -80 mesh sieving + pulverizing.
 - 3) pulverizing the whole sample.

Samplers must not wear any jewelry.

2. Shipping

A. **Local and Within Canada** - use Greyhound or Pacific Stage Lines. For large DRILL programs use a truck line.

B. **U.S. Customers** - for surface transport use UPS and address to :-

Acme Analytical Laboratories Ltd.,
c/o Pac Ex Services,
140 - 14th St.
Blaine, Wash. 98230

Air freight shipments are addressed to :-

Acme Analytical Laboratories Ltd.,
c/o Cole McCubbin
Vancouver, B.C.

Shipments from the U.S. should be labelled "Geological Samples for Analysis - No Commercial Value".

3. Suggested Geochemical Analysis

- A. **Rocks with No Visible Mineralization** - 30 element ICP + geochemical Au.
- B. **Rocks with High Sulphides** - 16 element ICP Assay.
- C. **Cores** - assays for elements of mineralization and possible 30 element ICP.
- D. **Soils** - 30 element ICP + geochemical Au.

4. Samples with Possible Native Gold

For rocks and cores with nugget or native gold, request that the total sample be pulverized and sieved on a 100 mesh screen. Two fire assays are then required for each sample; one on the entire +100 mesh fraction for any possible native gold and one on the -100 mesh. (1 A.T.)

Pan or sluice concentrates are best treated by cyclone concentration and fire assay for total Au.

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
 852 E. Hastings St., Vancouver, B.C. V6A 1R6
 Telephone: 253-3158

GEOCHEMICAL LABORATORY METHODOLOGY & PRICES - 1987

Sample Preparation

S80	Soils or silts up to 2 lbs drying at 60 deg.C and sieving 30 gms -80 mesh (other size on request)	\$.75
SJ	Saving part or all reject	.35
S20R	Soils or silts - drying at 60 deg.C and sieving -20 mesh & pulverizing (other mesh size on request.)	2.00
SP	Soils or silts - drying at 60 deg.C pulverizing (approx. 100 gms)	1.50
RP100	Rocks or cores - crushing to -3/16" up to 10 lbs, then pulverizing 1/2 lb to -100 mesh (98%)	3.00
	Over 10 lbs	.25/lb
RPS100	Same as RP100 except sieving to -100 mesh and saving +100 mesh	3.75
RPS100 1/2	Same as above except pulverizing 1/2 the reject	2.50/lb
RPS100 A	Same as above except pulverizing all the reject	2.50/lb
COP	Compositing pulps - each pulp Mixing & pulverizing	.50 1.50
V1	Drying vegetation and pulverizing 50 gms to -80 mesh	3.00
V2	Ashing up to 1 lb wet vegetation at 475 deg.C	2.00
H1	Special Handling	16.00/hr

Sample Storage

Rejects - Approx. 2 lbs of rock or total core are stored for three months and discarded unless claimed.

Pulps are retained for one year and discarded unless claimed.

Supplies

Soil Envelopes	4" x 6"	\$110.00/thousand
Soil Envelopes	4" x 6" with gusset	\$130.00/thousand
Plastic Bags	7" x 13" 6 ml	\$ 10.00/hundred
Plastic Bags	12" x 20" 6 ml	\$ 20.00/hundred
Ties		\$ 4.00/hundred
Assay Tags		W/C
10% HCl		\$ 5.00/liter
Dropping bottles		\$ 1.00/each
in test	A & B	\$ 10.00/each liter

Conversion Factors

1 Troy oz	= 31.10 g
1 oz/ton	= 34.3 ppm = 34.3 g/tonne = 34,300 ppb
1 %	= 10,000 ppm

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GEOCHEMICAL ANALYSES - Rocks and Soils

Group 1 Digestion

.50 gram sample is digested with 3 mls 3-1-2 HCl-HNO3-H2O at 95 deg.C for one hour and is diluted to 10 ml with water. This leach is near total for base metals partial for rock forming elements and very slight for refractory elements. Solubility limits Ag, Pb, Sb, Bi, W for high grade samples.

Group 1A - Analysis by Atomic Absorption.

Element	Detection	Element	Detection	Element	Detection
Antimony*	2 ppm	Copper	1 ppm	Bismuth	1 ppm
Bismuth*	2 ppm	Iron	0.01 %	Nickel	1 ppm
Cadmium*	0.1 ppm	Lead	2 ppm	Silver	0.1 ppm
Chromium	1 ppm	Lithium	2 ppm	Vanadium	2 ppm
Cobalt	1 ppm	Manganese	5 ppm	Zinc	2 ppm

First Element \$2.25 Subsequent Element \$1.00

Group 1B - Hydride generation of volatile elements and analysis by ICP.
 This technique is unsuitable for sample grading over 1% Ni or Cu.

Element	Detection	Element	Detection
Arsenic	0.1 ppm	Germanium	0.2 ppm
Antimony	0.1 ppm	Selenium	0.2 ppm
Bismuth	0.1 ppm	Tellurium	0.3 ppm

First Element \$4.00 All Elements \$5.00

Group 1C - Hg Detection limit - 5 ppb Price \$2.25

Hg in the solutions are determined by cold vapour AA using a F & J scientific Hg assembly. The aliquots of the extract are added to a stannous chloride/hydrochloric acid solution. The reduced Hg is swept out of the solution and passed into the Hg cell where it is measured by AA.

Group 1D - ICP Analysis, same digestion

Element	Detection
Ag	0.1 ppm
Cd, Co, Cr, Cu, Mn, Mo, Ni, Sr, Zn	1 ppm
As, Au, B, Ba, Bi, La, Pb, Sb, Th, V, W	2 ppm
U	5 ppm
Al, Ca, Fe, K, Mg, Na, P, Ti	0.01 %

Any 2 elements	\$3.25
5 elements	4.25
10 elements	5.25
All 30 elements	6.00

Group 1E - Analysis by ICP/MS

Element	Detection
Ga	1 ppm
Rh, In, Re, Os, Ir, Tl, Th, U	0.1 ppm

First Element \$ 4.00
 Additional Element 2.00 (Minimum 20 samples per batch)
 All Elements 15.00

Hydro Geochemical Analysis

Natural water for mineral exploration

26 element ICP - Mo, Cu, Pb, Zn, Ag, Co, Ni, Mn, Fe, As, Sr, Cd, V, Ca, P, Li, Cr, Hg, Ti, B, Al, Na, K, Ce, Be, Bi \$8.00

F by Specific Ion Electrode	- detection	20 ppb	\$3.50
U by UAJ	- detection	.01 ppb	4.50
pH		1 pH	1.50

* Minimum 20 samples or \$5.00 surcharge for ICP or AA and \$15.00 surcharge for ICP/MS. All prices are in Canadian Dollars.

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Group 2 - Geochemistry by Specific Extraction and Instrumental Techniques

Element	Method	Detection	Price
Barium	0.100 gram samples are fused with .6 gm LiBO2 dissolved in 50 ml 5% HNO3 and analysed by ICP. (other whole rock elements are also determined)	10 ppm	\$3.50
Carbon	LECO (total as C or CO2)	.01 %	5.25
Carbon+Sulfur	Both by LECO	.01 %	6.25
Carbon (Graphite)	HCl leach before LECO <i>C only</i>	.01 %	7.25
Chromium	0.50 gram samples are fused with 3 gm Na2O2 dissolved in 50 ml 20% HCl, analysed ICP.	5 ppm	3.75
Fluorine	0.25 gram samples are fused with NaOH; leached solution is adjusted for pH and analysed by specific ion electrode.	10 ppm	4.25
Sulphur	LECO (Total as S)	.01 %	5.25
Sulphur insoluble	LECO (After 5% HCl leach)	.01 %	7.25
Tin	1.00 gram samples are fused with NH4I. The sublimed iodine is leached with 5 ml 10% HCl, and analysed by Atomic Absorption.	1 ppm	3.25
Tungsten	.50 gram samples are fused with Na2O2 dissolved in 20 ml H2O, analysed by ICP.	1 ppm	3.25

Group 3 - Geochemical Mobile Metals

Element	Method	Detection	Price
Au*	10.0 gram samples are ignited at 600 deg.C, digested with hot aqua regia, extracted by MIBK, analysed by graphite furnace AA.	1 ppb	\$ 4.25
Au**, Pd, Pt, Rh	10.0 gram samples are fused with a Ag inquart with fire assay fluxes. After cupellation, the dore bead is dissolved and analysed by AA or ICP/MS.	1 ppb 2 ppb	5.75 -first element 2.50 -per additional 10.00 -for All
Larger samples - 20 gms add \$1.00 30 gms add \$2.00			

Group 4A - Geochemical Whole Rock Assay

0.100 gram samples are fused with LiBO2 and are dissolved in 50 ml 5% HNO3. SiO2, Al2O3, Fe2O3, CaO, MgO, Na2O, K2O, MnO, TiO2, P2O5, Cr2O3, LOI + Ba by ICP.
Price: \$3.75 first metal \$1.00 each additional \$9.00 for All.

Group 4B - Trace elements

Element	Detection	Analysis	Price
Co, Cu, Ni, Zn, Sr	10 ppm	ICP	\$3.75 first element or
Ce, Nb, Ta, Y, Zr	20 ppm	ICP	\$1.00 additional to 4A
Cs, Rb	10 ppm	AA	\$6.00 for All. \$1.50 each.

Group 4C - analysis by ICP/MS.

Be, Rb, Y, Zr, Nb, Sn, Cs, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Ta, Yb, Lu, Hf, Th, W, Th, U

Detection: 1 to 5 ppm Price: \$7.00 for first element
\$20.00 for All.

* Minimum 20 samples or \$5.00 surcharge for ICP or AA and \$15.00 surcharge for ICP/MS. All prices are in Canadian Dollars

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Regular Assay

Aluminum (Al)	\$ 7.50	Molsture (H2O)	\$ 5.00
Antimony (Sb)	7.50	Molybdenum (Mo)	6.75
Arsenic (As)	7.50	Molybdenum Sulfide (MoS2)	7.50
Barium (Ba)	7.50	Niobium (Nb)	10.00
Bismuth (Bi)	7.50	Nickel (Ni)	6.75
Boron (B)	7.50	Nickel (Non-sulfide) (Pd)	7.50
Cadmium (Cd)	6.75	Palladium (Pd)	12.50
Calcium (Ca)	7.50	Phosphorus (P)	7.50
Carbon (Total) (C)	7.50	Platinum (Pt)	12.50
Carbon (Graphitic)* (C)	9.50	Potassium (K)	7.50
Carbon plus Sulfur (Total)* (C)	11.00	Rhodium (Rh)	12.50
Cerium (Ce)	10.00	Rubidium (Rb)	7.50
Chromium (Cr)	7.50	Selenium (Se)	10.00
Cesium (Cs)	10.00	Silica (SiO2)	7.50
Cobalt (Co)	6.75	Silver (Ag)	6.75
Copper (Cu)	6.75	Silver (Fire Assay)	9.00
Copper (non-sulfide)* (Cu)	8.00	Sodium (Na)	7.50
Europium (Eu)	10.00	Specific Gravity*	6.00
Fluorine (F)	7.50	Strontium (Sr)	7.50
Gallium (Ga)	7.50	Sulfur (Total)* (S)	7.50
Germanium (Ge)	7.50	Sulfur (Sulfate) (S)	8.50
Gold (Au)	8.75	Tantalum (Ta)	7.50
Gold (Fire Assay) (Au)	8.25	Tellurium (Te)	10.00
Gold plus Silver (Fire Assay) (Au)	11.25	Thallium (Tl)	10.00
Indium (In)	8.50	Thorium* (Th)	7.50
Iron (Total) (Fe)	7.50	Tin (Sn)	8.00
Iron (Ferroous)* (Fe)	9.00	Titanium (Ti)	7.50
Lanthanum (La)	7.50	Tungsten (W)	7.50
Lithium (Li)	7.50	Uranium (U)	7.50
Lead (Pb)	6.75	Vanadium (V)	7.50
Loss on Ignition (LOI)	2.00	Yttrium (Y)	10.00
Magnesium (Mg)	7.50	Zinc (Zn)	6.75
Manganese (Mn)	7.50	Zirconium* (Zr)	10.00
Mercury* (Hg)	7.50	Pb Istopo Ratio	20.00

* Minimum 5 samples per batch

Other elements by Mass Spec. on request.

Multi-Element Assay Price

Arsenic, Antimony, Bismuth, Cadmium, Cobalt, Copper, Gold, Iron, Lead, Manganese, Molybdenum, Nickel, Silver, Thorium, Uranium, Zinc.

Price: First element \$6.75 Each Additional \$3.00 All 16 elements \$20.00

Whole Rock Assay Prices

SiO2, Al2O3, Fe2O3, CaO, MgO, Na2O, K2O, MnO, TiO2, P2O5, Cr2O3, LOI.

Price: First oxide \$7.50 Each Additional \$3.50 All 12 \$20.00

Volume Discounts Available.

Special Fire Assay Prices

Gold, Silver, Platinum, Palladium, Rhodium \$20.00
Placer conc. for total precious metal \$15.00

C. DRILLING (Details in report submitted as per section 8 of regulations.)
 (The itemized cost statement must be part of the report.)

Diamond drilling

COST
52,919.10

D. GEOLOGICAL, GEOPHYSICAL, GEOCHEMICAL
 (Details in report submitted as per section 5, 6, or 7 of regulations.)
 (The itemized cost statement must be part of the report.)
 (State type of work in space below.)

TOTAL OF C AND D	52,919.10
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Where the above statement requires a technical report as per section C of the Mineral Act Regulations, the author of the report shall complete both copies of the ASSESSMENT REPORT TITLE PAGE AND SUMMARY form and include the completed forms in the assessment reports.

Who was the operator (provided the financing)?

Name Lakewood Mining Co. Ltd. Menika Mining Ltd. (N.P.L.)
 Address Green Valley Mine Incorporated
2245 West 13th Avenue, Vancouver, B.C. V6K 2S4

Portable Assessment Credits (PAC) Withdrawal Request		AMOUNT
Amount to be withdrawn from owner(s) or operator(s) account(s):		
	Name of Owner/Operator	
[May be no more than 30 per cent of value of the approved work submitted as assessment work in C and (or) D.]	1. Charles Boitard	3,200.00
	2.	
	3.	
TOTAL WITHDRAWAL		3,200.00 <i>e.B.</i>
TOTAL OF C AND (OR) D PLUS PAC WITHDRAWAL		56,119.10