

84-1118-13221
9/85

ASSESSMENT REPORT ON A
ROCK AND SOIL GEOCHEMICAL SAMPLING SURVEY
ON THE
DICK MINERAL
CLAIM GROUP FOR
COLUMBIAN NORTHLAND EXPLORATION LTD.
AQUARIUS RESOURCES LTD., RUPERTSLAND RESOURCES LTD.,
FLAMINGO OILS LTD. and OCELOT INDUSTRIES LTD.
NEW WESTMINSTER MINING DIVISION
BRITISH COLUMBIA
NTS 92H/11 (WEST)
LATITUDE 49°33'North LONGITUDE 121°20'West

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,221

Vancouver, B.C.
November 6, 1984

Diane Howe, Project Geologist
OreQuest Consultants Ltd.

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1.0 INTRODUCTION

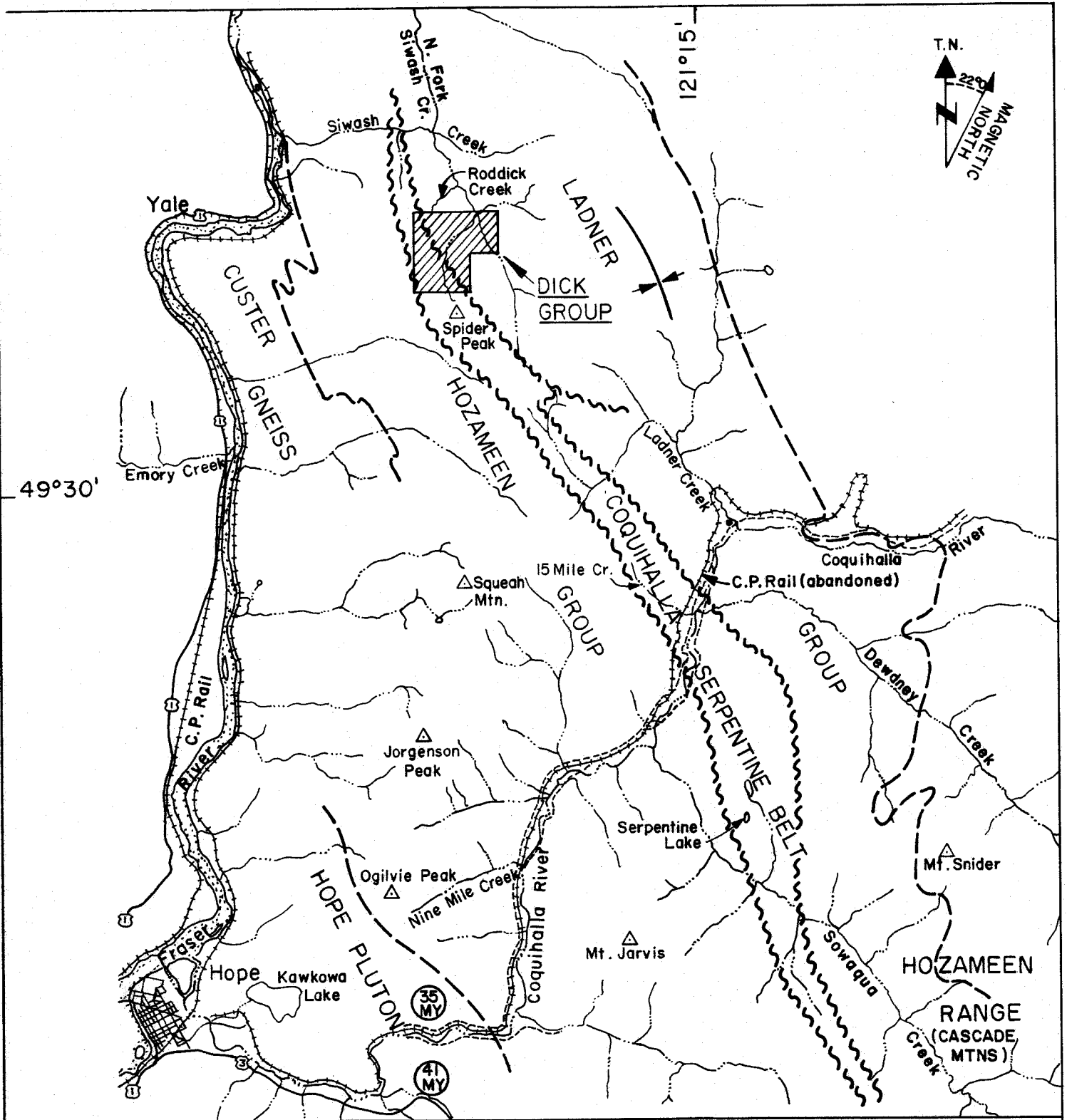
This report is an assessment report on the Dick Group of mineral claims located on the south fork of Siwash Creek some 7 kilometers due east of Yale, B.C.

This report briefly summarizes exploration done to date and presents recommendations for further work. Information contained in this report is from data collected during a brief field examination in September 1984, as well as information obtained through various government and private publications listed in the bibliography.

1.1 LOCATION and ACCESS

The Dick Group of mineral claims is located 7 kilometers due east of Yale, B.C. The claim block is on the south fork of Siwash Creek and is centered at 49°33'30" North Latitude and 121°20'30" West Longitude on NTS map sheet 92H/11 (west half).

Easy access is provided through the claims via a 19 kilometer, well travelled logging road which exits off Highway #1 at a gravel pit 0.5 kilometers north of the Alexandria Bridge located some 20 kilometers north of Yale. Cattermore Logging presently uses and maintains the road, therefore they should be contacted before using the road.



COQUIHALLA GOLD PROJECT
 DICK GROUP
 LOCATION & GENERAL GEOLOGY



Scale: 1:150,000

FIGURE 1

NTS 92H6/E&W, 92H11/E&W
 HOPE AREA BRITISH COLUMBIA
 NEW WESTMINSTER M D

1.2 CLAIMS INFORMATION

The Dick claim group, formerly called the Pipe group, consists of 18 units in two separate claim blocks named Dick and Spid. Both claims are jointly held by Columbian Northland Explorations Ltd., Aquarius Resources Ltd., Rupertsland Resources Ltd., Flamingo Oils Ltd. and Ocelot Industries Ltd.

Pertinent claim information is as follows:

Group	Claim	# Units	Rec. #	Anniversary Date	Year*
DICK	Dick	12	232	September 21	85
	Spid	6	231	September 21	85

*Pending approval of this year's assessment credit.

All claims are located in the New Westminster Mining Division.

1.3 PHYSIOGRAPHY

The Dick claim group lies within the northern end of the Cascade Mountains, a physiographic province of which only a small area lies in British Columbia.

The topography of the area consists of steep, but rounded hills combined with sharp peaks and deep "V" shaped valleys.

Due to heavy precipitation and a mild climate the forest cover is dense with large stands of magnificent cedar and douglas fir being abundant.

1.4 HISTORY

The area between Spider Peak and Gilt Creek which includes the area of the Dick group has been actively prospected over the last 90 years, with a number of gold occurrences being located. The old Ward Mine located at the fork of Siwash Creek has produced 128 oz/ton gold in 1905. Gold was found within quartz veins cutting felsic intrusions.

Another series of adits reported as the Emigrant property was located on the South fork of Siwash Creek. A collapsed adit believed to be the Majestic showing is found on the top part of Hidden Creek. Again, it is felt gold was also probably won from quartz veins cutting felsic intrusions.

The Monument gold occurrence is located approximately 4 kilometers north of the old Ward Mine. Visible gold was reported within vuggy quartz and as shear surface coatings in slaty argillites of the Ladner group.

There are numerous other minor gold showings known as the Spuz occurrences which have also been located along this gold belt and are represented by narrow quartz veins hosted in Ladner sediments.

Most, if not all of these occurrences are within the Columbian Northland Explorations Ltd., et al claim holdings and have been studied or inspected by Aquarius or Cochrane Consultants Ltd. over the past years.

2.0 1984 ASSESSMENT WORK PROGRAMS

A total of 34 rock and 8 soil samples were collected every 50 metres along a newly exposed road cut which conveniently traverses through the Dick mineral claim.

Samples were sent to Chemex Labs Ltd. of Vancouver and analysed for gold, silver, arsenic, mercury, copper, lead and zinc. The assay report and Chemex techniques are entered as Appendix A.

The majority of the road crosscuts through Ladner shales and siltstones with the East Hozameen fault observed at the western end of the road. Here there is an abrupt change into serpentinites with thick, impermeable layers of clay overburden.

Gold values received are extremely encouraging. Anomalous values recorded in several rock samples range from 35 to 1,320 ppb with the highest value received from a quartz vein chip sample located approximately 300 metres east of the fault. Soil samples collected near the vein range in value from 1,690 to 2,040 ppb. Associated anomalous values in arsenic were also noted.

A reconnaissance geochemical survey done in 1978 by Cochrane Consultants Ltd. over the Dick and Spid claims outlined several anomalous gold samples, not surprisingly they are coincident with this years encouraging assays.

CONCLUSIONS and RECOMMENDATIONS

Based on the geologically favourable location and extremely encouraging assay values, further work is definitely warranted and recommended on the Dick claim group.

An extensive program of linecutting (grid established) for ground control with detailed geological mapping, soil and rock sampling and geophysics should be conducted over the entire claim group.

ITEMIZED COST STATEMENT

DATES: August 22 and September 10,1984

Dick Group

B. Helgason - 2 days @ \$200/day	\$ 400.00
D. Howe - 1 day @ \$200/day	200.00
G. Cavey - .5 days @ \$400/day	200.00
E. Kirk - 1 day @ \$150/day	<u>150.00</u>
	\$ 950.00

Truck Rental - 2 days @ \$75/day	150.00
----------------------------------	--------

DISBURSEMENTS

Accommodation	79.18
Meals	101.16
Gas	47.94
Assays	855.00
Materials	<u>35.00</u>
Contingencies @ 15%	\$ 167.74
	1,286.02
Report and Drafting	<u>500.00</u>
	<u>\$2,886.02</u>

TOTAL

QUALIFICATIONS

I, Diane Howe, of 21394-126th Avenue, Maple Ridge, British Columbia hereby certify:

1. I am a graduate of the University of British Columbia (1980) and hold a BSc. degree in geology.
2. I am presently employed as a project geologist with OreQuest Consultants Ltd. of 404-595 Howe Street, Vancouver, British Columbia.
3. I have been employed in my profession by various mining companies for the past five years.
4. I am a member of the Canadian Institute of Mining.
5. The information contained in this report was obtained from data personally collected during the field program in September of 1984 and from the reports and files listed in the Bibliography.
6. Neither OreQuest Consultants Ltd. nor myself have direct or indirect interest in the property described.

D. Howe

Diane Howe
Project Geologist

DATED at Vancouver, British Columbia, this 6th day of November, 1984.

BIBLIOGRAPHY

CAIRNES, C.E.

Coquihalla Area, British Columbia, G.S.C. Memoir 1939.

COCHRANE, D.R., P. Eng. and LITTLEJOHN, A.C.

Geophysical and Geochemical Assessment Report on the Stem #1 to #12, Dick and Spid Claims for Longbar Minerals Ltd. 1977.

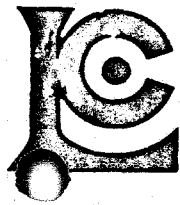
MONGER, J.

Hope Map Area, West half, B.C., G.S.C. Paper 69-47.

RAY, G.E.

Coquihalla Gold Belt Project, Ministry of Energy, Mines and Petroleum Resources Ltd., papers 1982-1, 1983-1, 1984-1.

APPENDIX A



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

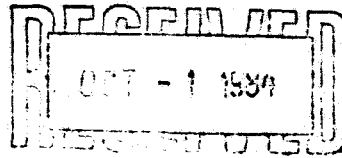
212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1

Telephone: (604) 984-0221
Telex: 043-52597

CERTIFICATE OF ANALYSIS

TO : OreQuest Consultants Ltd.

404 - 595 HOWE ST.
VANCOUVER, B.C.
V6C 2T5



CERT. # : A8416235-001-
INVOICE # : I8416235
DATE : 30-SEP-84
P.O. # : NONE
CNE-3

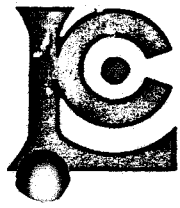
Dick-Spin

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ag ppm	AS ppm	Hg ppb
RCNE3-01	205	520	3	305	0.8	120	60
RCNE3-02	205	67	6	172	0.9	130	130
RCNE3-03	205	108	5	110	0.7	25	130
RCNE3-04	205	17	1	20	0.2	5	30
RCNE3-06	205	49	3	107	0.5	4	30
RCNE3-07	205	46	4	185	0.6	48	90
RCNE3-08	205	33	2	113	0.4	85	30
RCNE3-09	205	12	1	36	0.4	170	40
RCNE3-12	205	40	5	205	0.6	16	50
RCNE3-13	205	35	5	370	0.7	36	130
RCNE3-15	205	39	3	52	0.4	360	30
RCNE3-16	205	8	1	30	0.2	120	10
RCNE3-17	205	20	1	56	0.2	1300	20
RCNE3-22	205	15	1	36	0.2	79	20
RCNE3-23	205	50	3	390	0.7	73	50
RCNE3-25	205	9	2	14	0.4	210	30
RCNE3-34	205	16	9	33	0.2	5	10
RCNE3-35	205	58	2	280	0.4	16	50
RCNE3-36	205	16	5	61	0.2	39	20
RCNE3-37	205	25	1	330	0.3	9	20
RCNE3-38	205	52	1	96	0.5	107	70
RCNE3-39	205	18	2	59	0.2	7	30
RCNE3-40	205	17	2	30	0.4	61	60
RCNE3-41	205	24	3	119	0.3	12	80
RCNE3-42	205	16	9	223	0.4	210	60
RCNE3-43	205	10	1	27	0.3	107	20
RCNE3-44	205	19	5	94	0.2	9	60
RCNE3-45	205	40	10	160	0.2	15	80
RCNE3-46	205	28	15	75	0.3	16	80
RCNE3-47	205	32	1	230	0.2	71	70
RCNE3-48	205	57	6	133	0.3	19	170
RCNE3-49	205	27	5	65	0.1	10	70
RCNE3-50	205	59	5	65	0.1	22	90
RCNE3-51	205	47	6	98	0.3	67	80

Dick-Spin Rock

Certified by *Hart Bichler*





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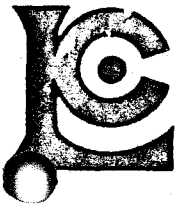
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VANCOUVER, B.C.
V6C 2T5

CERT. # : A8416235-001-
INVOICE # : I8416235
DATE : 30-SEP-84
P.O. # : NONE
CNE-3

Sample description	Prep code	Au ppb FA+AA						
RCNE3-01	205	<5	--	--	--	--	--	--
RCNE3-02	205	10	--	--	--	--	--	--
RCNE3-03	205	<5	--	--	--	--	--	--
RCNE3-04	205	<5	--	--	--	--	--	--
RCNE3-06	205	<5	--	--	--	--	--	--
RCNE3-07	205	10	--	--	--	--	--	--
RCNE3-08	205	40	--	--	--	--	--	--
RCNE3-09	205	1320	--	--	--	--	--	--
RCNE3-12	205	5	--	--	--	--	--	--
RCNE3-13	205	5	--	--	--	--	--	--
RCNE3-15	205	115	--	--	--	--	--	--
RCNE3-16	205	<5	--	--	--	--	--	--
RCNE3-17	205	<5	--	--	--	--	--	--
RCNE3-22	205	<5	--	--	--	--	--	--
RCNE3-23	205	50	--	--	--	--	--	--
RCNE3-25	205	220	--	--	--	--	--	--
RCNE3-34	205	<5	--	--	--	--	--	--
RCNE3-35	205	<5	--	--	--	--	--	--
RCNE3-36	205	25	--	--	--	--	--	--
RCNE3-37	205	<5	--	--	--	--	--	--
RCNE3-38	205	35	--	--	--	--	--	--
RCNE3-39	205	<5	--	--	--	--	--	--
RCNE3-40	205	80	--	--	--	--	--	--
RCNE3-41	205	<5	--	--	--	--	--	--
RCNE3-42	205	85	--	--	--	--	--	--
RCNE3-43	205	35	--	--	--	--	--	--
RCNE3-44	205	<5	--	--	--	--	--	--
RCNE3-45	205	<5	--	--	--	--	--	--
RCNE3-46	205	<5	--	--	--	--	--	--
RCNE3-47	205	<5	--	--	--	--	--	--
RCNE3-48	205	<5	--	--	--	--	--	--
RCNE3-49	205	<5	--	--	--	--	--	--
RCNE3-50	205	<5	--	--	--	--	--	--
RCNE3-51	205	5	--	--	--	--	--	--

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OCT - 1 1984

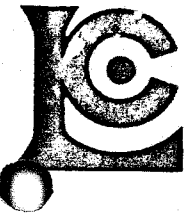
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CNE2-3

Sample description	Prep code	Cu ppm	Pb ppm	Zn ppm	Ag ppm	AS ppm	Hg ppb
DCNE3-05	201	51	5	325	2.0	22	240
DCNE3-10	201	30	10	135	0.8	390	100
DCNE3-11	201	32	10	135	0.9	1200	60
DCNE3-14	201	34	4	283	0.7	39	70
DCNE3-18	201	39	5	125	0.5	230	80
DCNE3-19	201	34	5	98	0.8	35	120
DCNE3-20	201	32	3	56	0.4	22	90
DCNE3-21	201	30	4	95	0.2	48	50

Dick - Spid - Soil



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VANCOUVER, B.C.
V6C 2T5

CERT. # : A8416234-001
INVOICE # : I8416234
DATE : 30-SEP-84
P.O. # : NONE
CNE2-3

Sample description	Prep code	Au ppb FA+AA					
DCNE3-05	201	10	--	--	--	--	--
DCNE3-10	201	1690	--	--	--	--	--
DCNE3-11	201	2040	--	--	--	--	--
DCNE3-14	201	30	--	--	--	--	--
DCNE3-18	201	15	--	--	--	--	--
DCNE3-19	201	20	--	--	--	--	--
DCNE3-20	201	5	--	--	--	--	--
DCNE3-21	201	<5	--	--	--	--	--

Hart Buchler

Certified by



GEOCHEMICAL PREPARATION
AND
ANALYTICAL PROCEDURES

1. Geochemical samples (soils, silts) are dried at 80°C for a period of 12 to 24 hours. The dried sample is sieved to -80 mesh fraction through a nylon and stainless steel sieve. Rock geochemical materials are crushed, dried and pulverized to -100 mesh.
2. A 1.00 gram portion of the sample is weighed into a calibrated test tube. The sample is digested using hot 70% HClO₄ and concentrated HNO₃. Digestion time = 2 hours.
3. Sample volume is adjusted to 25 mls. using demineralized water. Sample solutions are homogenized and allowed to settle before being analyzed by atomic absorption procedures.
4. Detection limits using Techtron A.A.5 atomic absorption unit:

Copper	- 1 ppm
Zinc	- 1 ppm
*Silver	- 0.2 ppm
*Lead	- 2 ppm
5. *Ag & Pb are corrected for background absorption.
6. Elements present in concentrations below the detection limits are reported as one half the detection limit, ie Ag - 0.1 ppm.

F.A. - A.A. GOLD COMBO METHOD

For low grade samples and geochemical materials, 10 gram samples are fused in litharge, carbonate and siliceous flux with the addition of 10 mg of Au-free Ag metal and cupelled. The silver bead is parted with dilute HNO₃ and then treated with aqua regia. The salts are dissolved in dilute HCl and analyzed for Au on an atomic absorption spectrophotometer to a detection of 5 ppb.

ASSAY PREPARATION

- 1.) Samples are sorted, then listed on assay sheets.
- 2.) The entire sample is crushed first in a primary jaw crusher, then in a secondary cone crusher.
- 3.) The crushed sample is reduced to a 200-400 gram sub-sample in a Jones Riffler, then dried.
- 4.) The dried material is pulverized to pass a 100 mesh screen, then rolled to homogenize.

ASSAY ANALYTICAL METHODS

- 1.) Cu, Mo, Ni (%)
A 2 gram sub-sample is digested in a hot perchloric-nitric acid mixture for two hours, cooled, then transferred into a 250 ml. volumetric flask. Aluminum Chloride is added as an ionization suppressant for Mo. The solutions are then analyzed on an atomic absorption instrument.
- 2.) Pb, Zn (%)
These elements are analyzed as above with the addition of nitric acid to the final sample and standard solutions.
- 3.) WO_3
Tungstens are analyzed by a colourimetric thiocyanate procedure after dissolution with a phosphoric-hydrofluoric-hydrochloric acid mixture.
- 4.) Ag, Au (oz/ton)
Silver and gold analyses are done by standard fire assay techniques. In the sample preparation stage the screens are checked for metallics which, if present, are assayed separately and calculated into the results obtained from the pulp assay.

CCRMP standards provided by the Department of Energy, Mines and Resources are analyzed along with each group of fourty samples for quality control. Fire assay standards are used less frequently because of the large quantity of pulp required for the analysis.

PPM Antimony:

A 2.0 gm sample digested with conc. HCl in hot water bath. The iron is reduced to Fe^{+2} state and the Sb complexed with I^- . The complex is extracted with TOPO-MIBK and analyzed via A.A. Correcting for background absorption $0.2 \text{ ppm} \pm 0.2$

Detection limit: 0.2 ppm

PPM Arsenic:

A 1.0 gram sample is digested with a mixture of perchloric and nitric acid to strong fumes of perchloric acid. The digested solution is diluted to volume and mixed. An aliquot of the digest is acidified, reduced with KI and mixed. A portion of the reduced solution is converted to arsine with NaBH_4 and the arsenic content determined using flameless atomic absorption.

Detection limit: 1 ppm

PPB Gold:

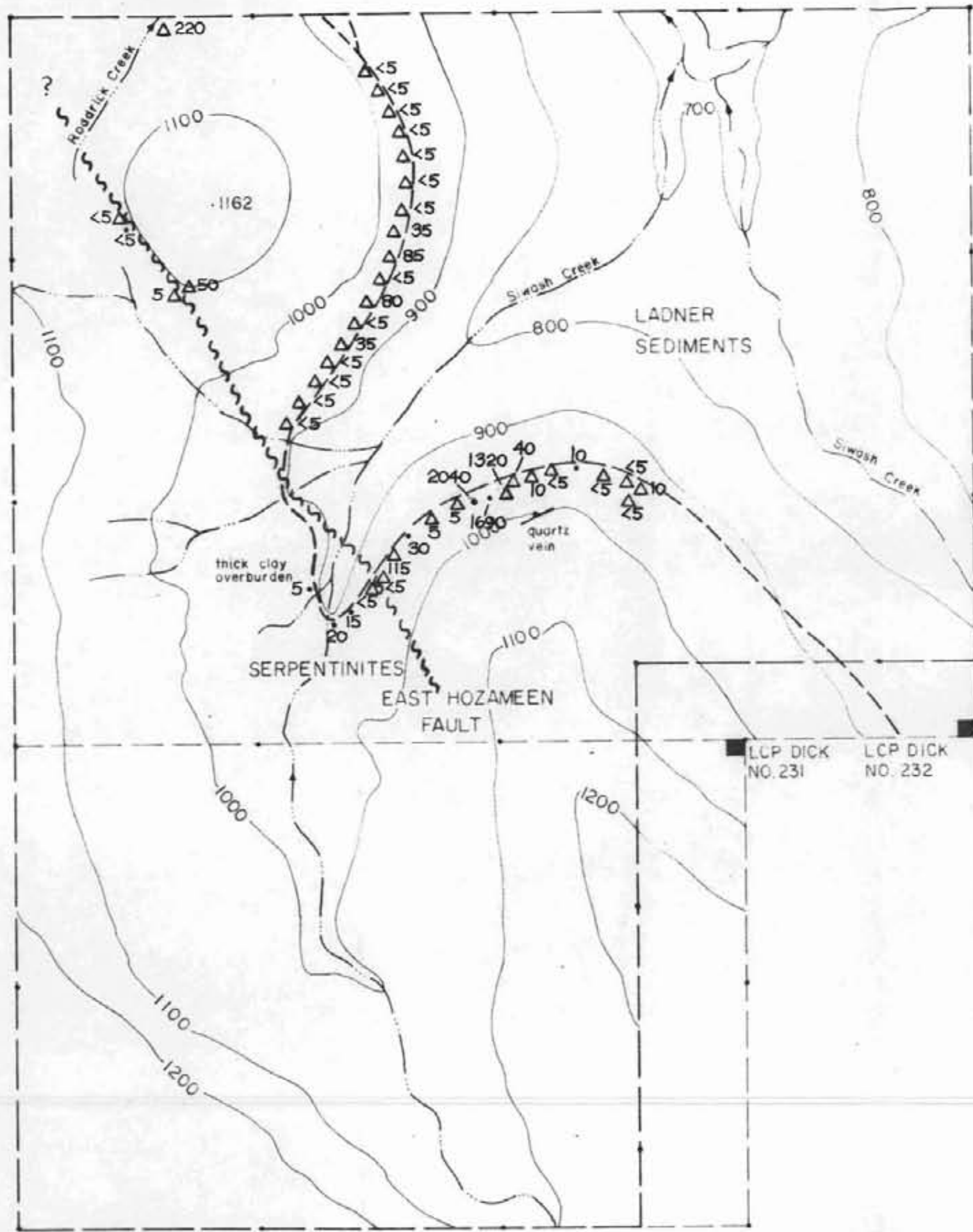
5 gm samples ashed @ 800°C for one hour, digested with aqua regia - twice to dryness - taken up in 25% HCl, the gold then extracted as the bromide complex into MIBK and analyzed via A.A.

Detection limit: 10 ppb

PPM Uranium

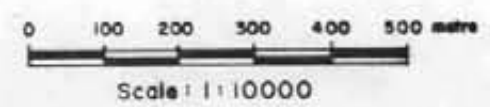
1.0 gms sample is digested with HClO_4 - HNO_3 acid for approximately 2 hours. An aliquot extracted with MIBK after the addition of $\text{Al}(\text{NO}_3)_3$ - TPAN solution and analyzed via conventional fluorometric procedure.

Detection limit: 0.5 ppm



LEGEND

- Logging Area
- Soil Sample (DCNE 3)
- Rock Sample (RCNE 3)
- Creek
- Fault
- Geological Contact
- Legal Corner Post



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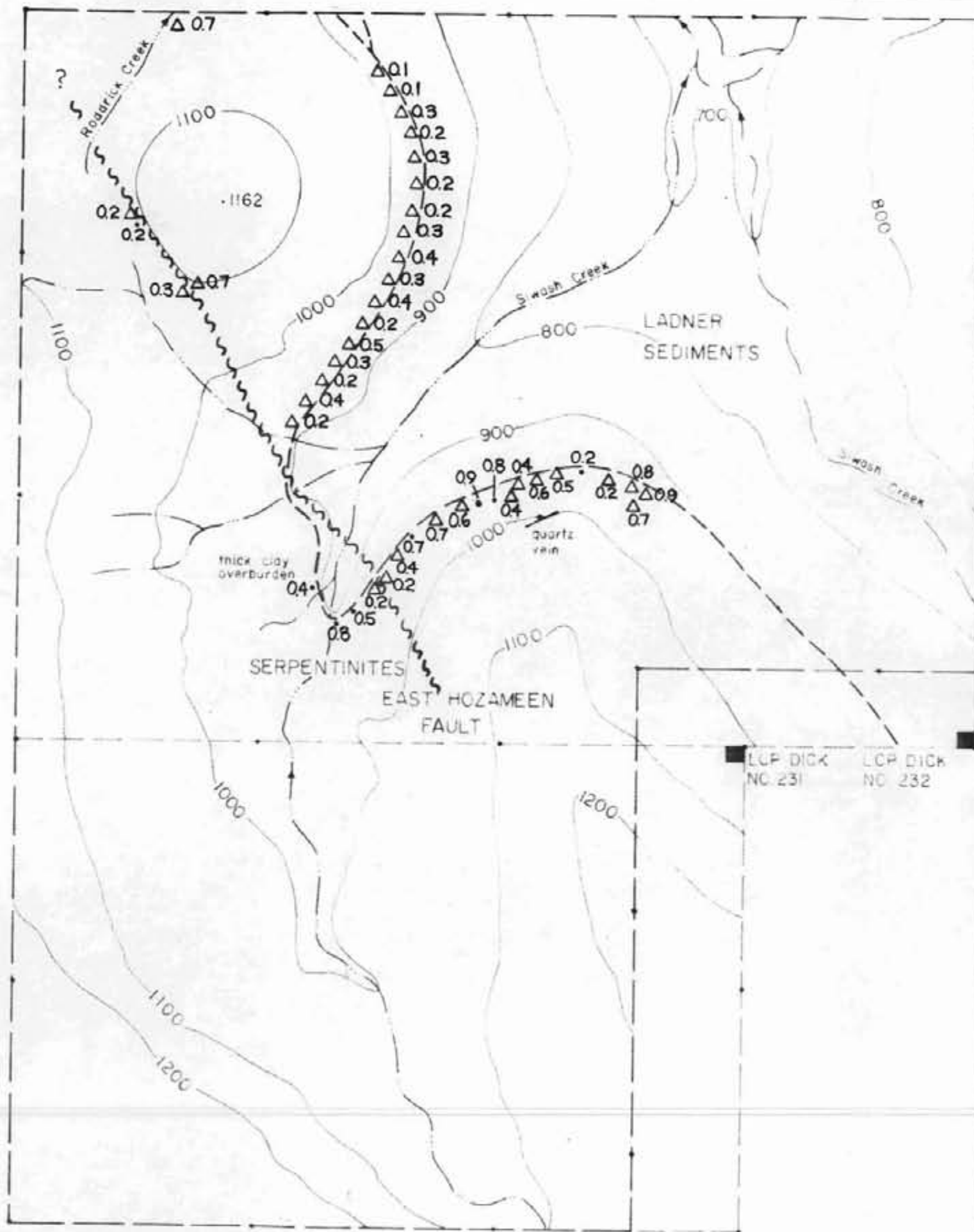
SOIL & ROCK GEOCHEMISTRY

Au (ppb)

NTS 92H6/ESW, 92H11/ESW HOPE AREA BRITISH COLUMBIA

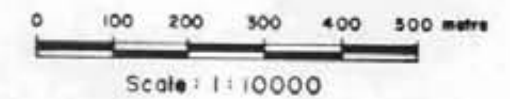
COQUIHALLA GOLD PROJECT - DICK GROUP

DATE	NOV/1984	SCALE	FIGURE NO. 2
DRAWN BY	PY		



LEGEND

- Logging Area
- Soil Sample (DCNE 3)
- Rock Sample (RCNE 3)
- Creek
- Fault
- Geological Contact
- Legal Corner Post



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SOIL & ROCK GEOCHEMISTRY

Ag (ppm)

NTS 92H6/E&W, 92H11/E&W HOPE AREA BRITISH COLUMBIA

COQUIHALLA GOLD PROJECT - DICK GROUP

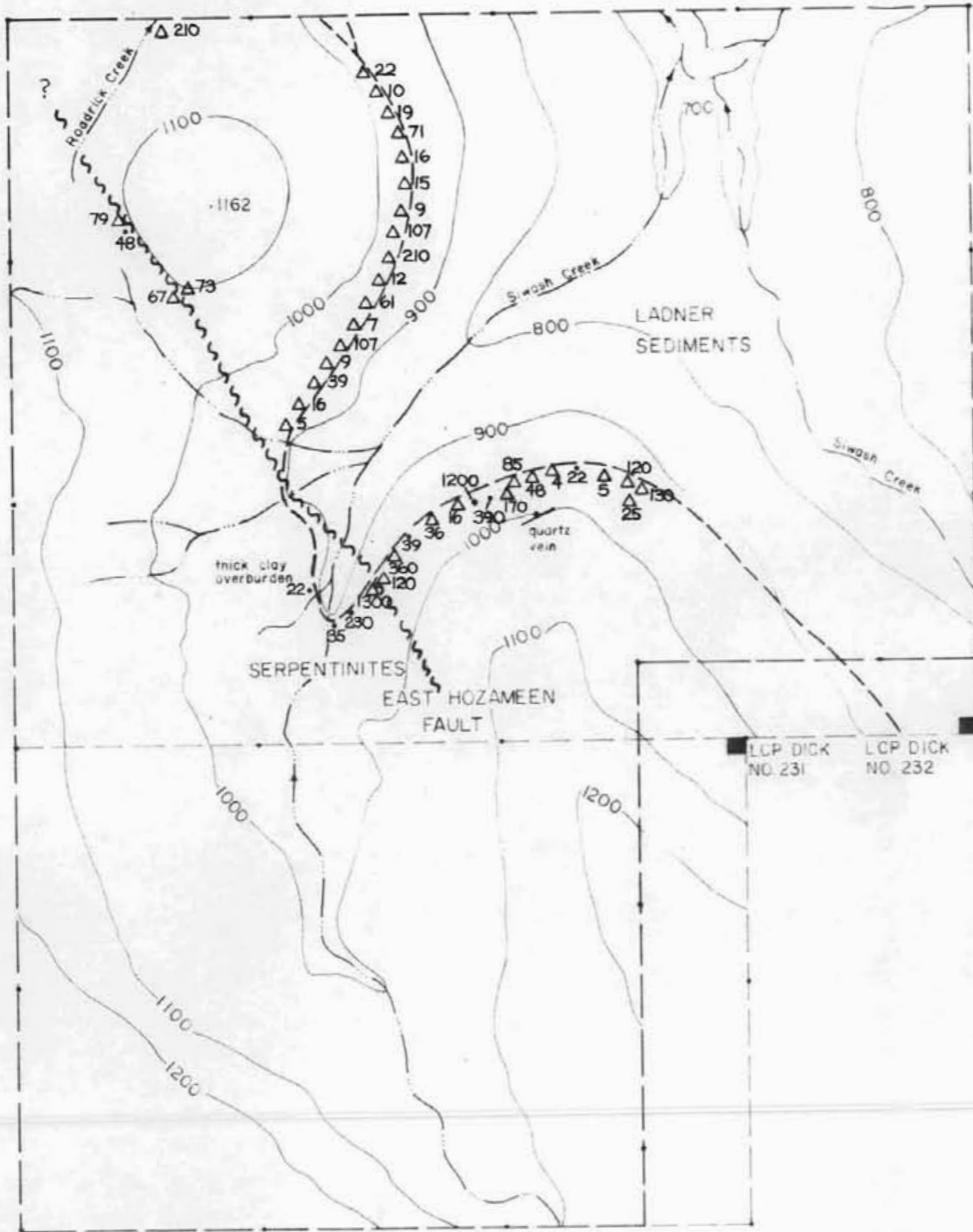
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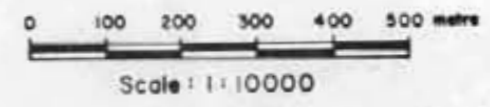
SCALE

FIGURE NO

3



- LEGEND**
- Logging Area
 - Soil Sample (DCNE 3)
 - △ Rock Sample (RCNE 3)
 - ~ Creek
 - |||| Fault
 - - - Geological Contact
 - Legal Corner Post



OREQUEST CONSULTANTS LTD.

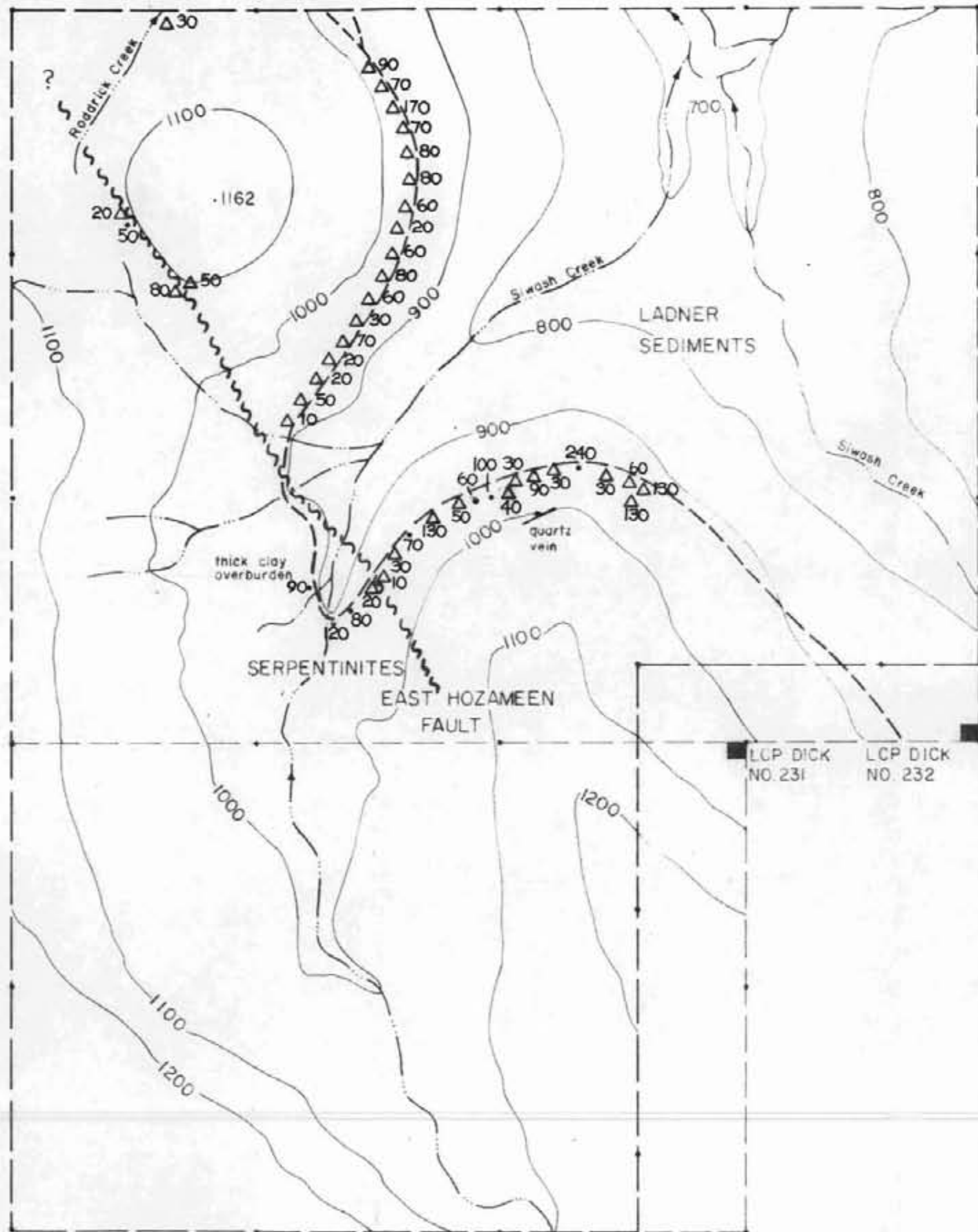
SOIL & ROCK GEOCHEMISTRY

As (ppm)

NTS 92H6/E&W, 92H11/E&W HOPE AREA BRITISH COLUMBIA

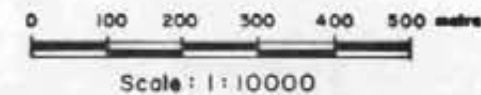
COQUIHALLA GOLD PROJECT - DICK GROUP

DATE	NOV/1984	SCALE	FIGURE NO. 4
DRAWN BY	PY		



LEGEND

- Logging Area
- Soil Sample (DCNE 3)
- Rock Sample (RCNE 3)
- Creek
- Fault
- Geological Contact
- Legal Corner Post



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SOIL & ROCK GEOCHEMISTRY

Hg (ppb)

NTS 92H6/E&W, 92H11/E&W HOPE AREA BRITISH COLUMBIA

COQUIHALLA GOLD PROJECT - DICK GROUP

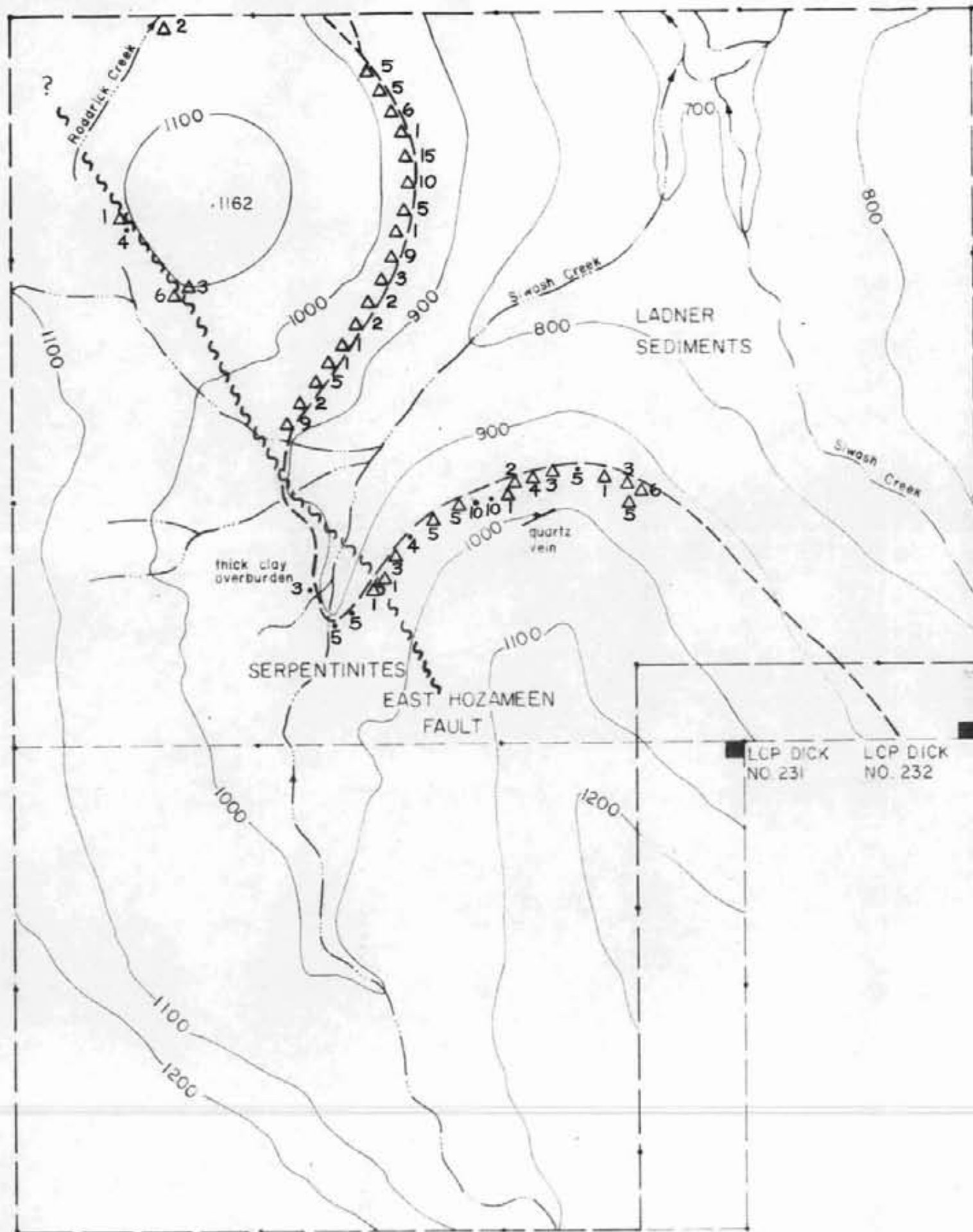
DATE NOV/1984

DRAWN BY P Y

SCALE

FIGURE NO.

5



LEGEND

- Logging Area
- Soil Sample (DCNE 3)
- Rock Sample (RCNE 3)
- Creek
- Fault
- Geological Contact
- Legal Corner Post



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SOIL & ROCK GEOCHEMISTRY

Pb (ppm)

NTS 92H6/E&W, 92H11/E&W HOPE AREA BRITISH COLUMBIA

COQUIHALLA GOLD PROJECT - DICK GROUP

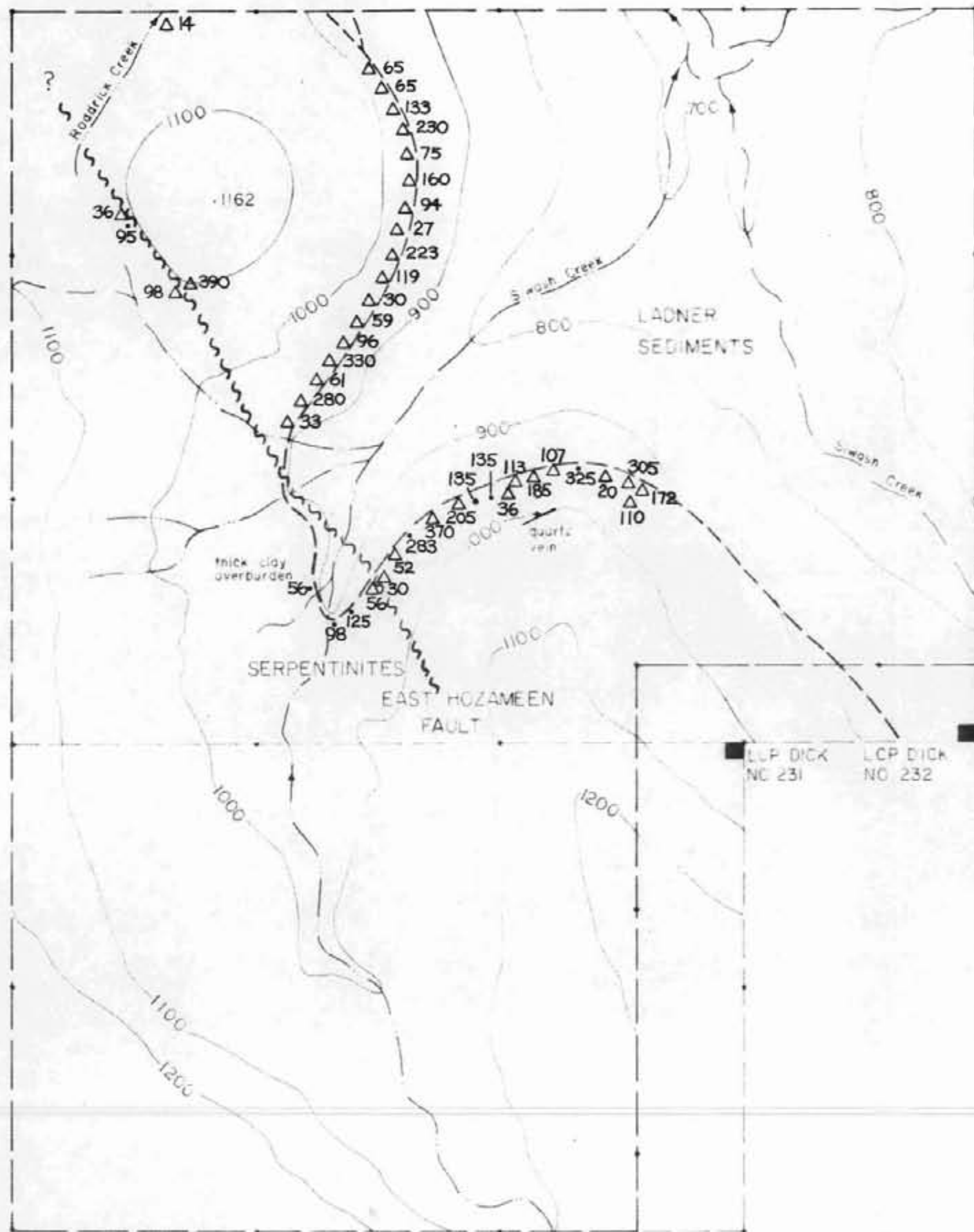
DATE NOV/1984

DRAWN BY P Y

SCALE

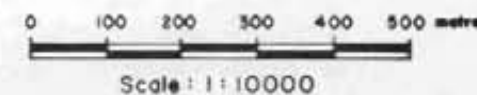
FIGURE NO.

6



LEGEND

- Logging Area
- Soil Sample (DCNE 3)
- △ Rock Sample (RCNE 3)
- ~ Creek
- Fault
- - - Geological Contact
- Legal Corner Post



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SOIL & ROCK GEOCHEMISTRY

Zn (ppm)

NTS 92H6/E&W, 92H11/E&W HOPE AREA BRITISH COLUMBIA

COQUIHALLA GOLD PROJECT - DICK GROUP

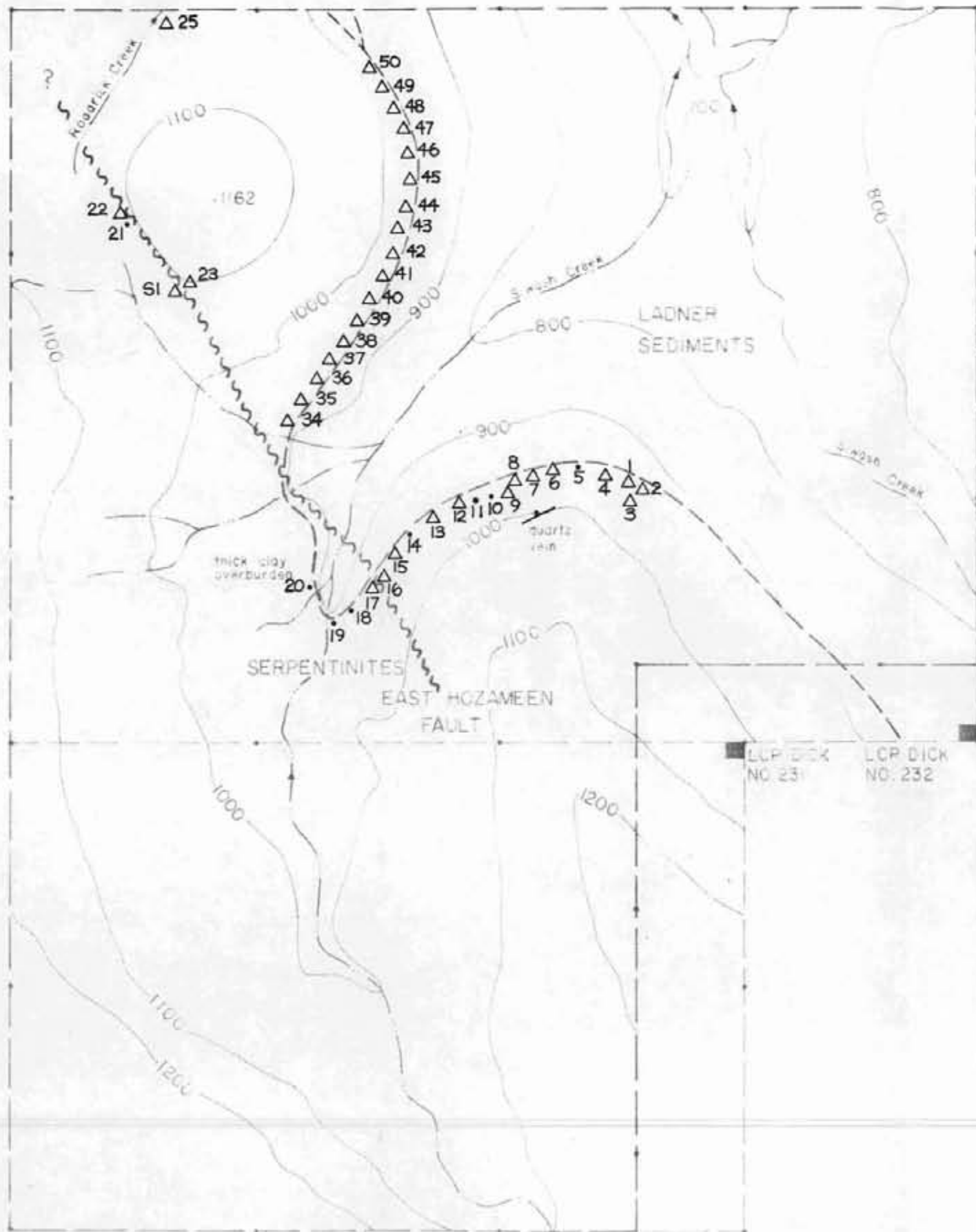
FIGURE NO

DATE NOV / 1984

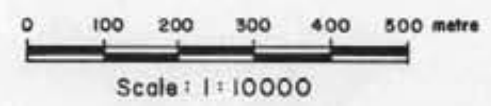
SCALE

DRAWN BY P Y

7



- LEGEND**
- Logging Area
 - Soil Sample (DCNE 3)
 - Rock Sample (RCNE 3)
 - Creek
 - Fault
 - Geological Contact
 - Legal Corner Post



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SAMPLE LOCATION

NTS 92H6/E&W, 92H11/E&W HOPE AREA BRITISH COLUMBIA

COQUIHALLA GOLD PROJECT - DICK GROUP		FIGURE NO.
DATE	NOV/1984	9
DRAWN BY	PY	