MAPS TO ACCOMPANY:
A SUMMARY REPORT ON THE
J & L MINERAL OPTION
LEAD-ZINC-GOLD-SILVER PROSPECT
REVELSTOKE MINING DIVISION
BRITISH COLUMBIA
N.T.S. 82M/8E

R. Pegg, P.Eng
Geological Engineer

For: Selco Inc.
Vancouver, BC

January, 1983

420 000E | 421 000E | 422 000E | 423 000E | 424 000E | 425 000E

5 683 000 N
5 682 000 N
5 681 000 N
5 680 000 N
5 679 000 N

G. D.

SHANNON 400

ARTY 4

SHANNON 700

SHANNON 1000

SHANNON 900

SHANNON 800

MARY 6

MARY 7

McKinnon Creek

Corres Creek

Old camp

BASE LINE 0+00

TIE LINE 2+76W

L 14829
L 14828
L 14827
L 14826
L 14825
L 14824
L 14823
L 14822
L 14821

L 2+00S
L 4+00S
L 6+00S
L 8+00S
L 10+00S
L 12+00S
L 14+00S
L 16+00S
L 18+00S
L 20+00S
L 22+00S
L 24+00S

O.C.P.

LEGEND

- ROAD (NEW OR IMPROVED)
- NEW CAMPSITE (CLEARED)
- NEW HELICOPTER PAD (CLEARED)
- NEW BRIDGE
- SURVEY GRID
- CLAIM BOUNDARY
- CREEK

CLAIM BOUNDARIES TAKEN FROM GOVERNMENT CLAIM MAP.

NOTE Compiled from aerial photography at a scale of 1 75,000 flown in Aug 1970

Contour interval 20 metres

0 100 200 300 400 500 metres

0 500 1000 1500 feet

SHEET INDEX

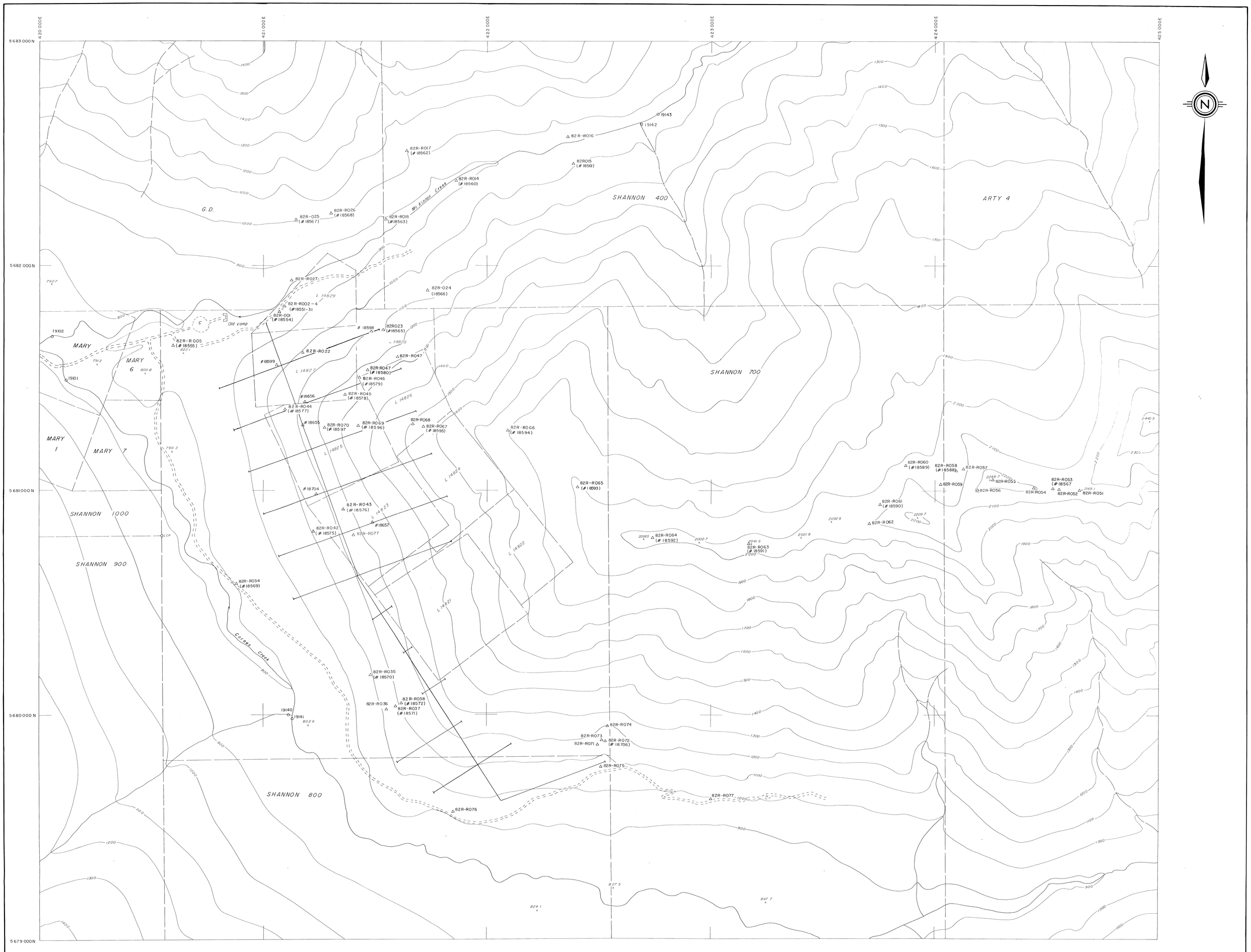
A	B
C	D
A-04	B-04
C-04	

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT
PHYSICAL WORK PLAN

SCALE 1 : 5,000

DRAWN BY R.P.	DATE NOV. 1982.	N.T.S.	PLAN
TRACED BY J.S.	DATE NOV. 1982.	82M/8 E	1



LEGEND

======	ROAD
——→	CREEK
△	ROCK SAMPLE LOCATION
△ 82R-R040	REPRESENTATIVE SAMPLE NUMBER
△ # 18590	GEOCHEMICAL/ASSAY SAMPLE NUMBER
○ 19130	HEAVY MINERAL SAMPLE
	NEW CAMPSITE (CLEARED)
	NEW HELICOPTER PAD (CLEARED)
	NEW BRIDGE
	SURVEY GRID
— — —	CLAIM BOUNDARY (TAKEN FROM GOVERNMENT CLAIM MAP)

SHEET INDEX

A	B
C	D
A	B
C	D

NOTE: Compiled from aerial photography at a scale of 1:75,000 flown in Aug. 1970.
Contour interval 100 metres.

0 100 200 300 400 500 metres

0 500 1000 1500 feet

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT
TRAVERSE SAMPLE LOCATIONS

SCALE 1:5,000

DRAWN BY	DATE	N.T.S.	PLAN
R. PEGG	NOV. 1982.	82 M / 8 E	2
TRACED BY	DATE		
J. S.	NOV. 1982.		

420 000E 421 000E 422 000E 423 000E 424 000E 425 000E

5683 000N 5682 000N 5681 000N 5680 000N 5679 000N

SHANNON 400

ARTY 4

G. D.

SHANNON 700

MARY 6

MARY 7

SHANNON 1000

SHANNON 900

SHANNON 800

L 14829 L 14828 L 14827 L 14826 L 14825 L 14824 L 14823 L 14822 L 14821

Mc Kinnon Creek

Goines Creek

Old camp

LCP

C

18562 0.31%Na2O,0.07%K2O,0.23%MgO,28.56% L.O.I., 36.91%SiO2,0.07%P2O5,0.81%Al2O3, 3.53%FeO,11.87%MgO,0.52%CaO

18560 15ppmCu,39ppmPb,173ppm Zn, 1ppm Ag,1ppm W,1ppm Sn, 0.2ppm Bi,1120ppb Au

18568 83ppm Pb,36ppm Zn, 1ppm W,1ppm Sn, 5ppm Bi,260ppm Ba

18567 65ppm Pb,155ppm Zn, 1ppm W,1ppm Sn, 0.3ppm Bi,660ppm Ba

18563 15ppm Cu, 7ppm Pb,30ppm Zn, 1ppm Ag,1ppm W,1ppm Sn, 1ppm Bi, 1120ppb Au

18566 58ppm Pb,111ppm Zn, 1ppm W,1ppm Sn, 0.6ppm Bi,1090ppm Ba

18565 3ppm Pb,131ppm Zn,1ppm W, 1ppm Sn,0.1ppm Bi,120ppm Ba

18564 1ppm Pb,106ppm Zn,1ppm W, 1ppm Sn,0.2ppm Bi,460ppm Ba

18599 9.5ppm Pb,24ppm Zn,1ppm W, 1ppm Sn,0.2ppm Bi,280ppm Ba

18579 6ppm Pb,67ppm Zn,1ppm W, 1ppm Sn,0.2ppm Bi,220ppm Ba

18578 12.2ppm Pb,66ppm Zn,1ppm W, 1ppm Sn,0.4ppm Bi,260ppm Ba

18554 0.01%Cu,0.02%Pb,0.06%Zn,0.0141%As, <0.001%W,0.91%Mn,0.020%Sb, 0.076ppm Ag,0.006 oz/t Au

18577 <1ppm Pb,13ppm Zn,2ppm W, 2ppm Sn,1ppm Bi,680ppm Ba

18555 29ppm Cu,15ppm Pb,65ppm Zn,5ppb Au, 0.1ppm Ag,1ppm W,1ppm Sn,0.1ppm Bi

18596 3ppm Pb,86ppm Zn,1ppm W, 1ppm Sn,0.5ppm Bi,300ppm Ba

18597 27ppm Pb,95ppm Zn,1ppm W, 1ppm Sn,0.4ppm Bi,360ppm Ba

18595 1ppm Pb,36ppm Zn,1ppm W, 1ppm Sn,0.07ppm Bi,640ppm Ba

18594 1ppm Pb,70ppm Zn,1ppm W, 1ppm Sn,0.2ppm Bi,200ppm Ba

18593 1ppm Pb,79ppm Zn,1ppm W,1ppm Sn, 0.1ppm Bi,200ppm Ba

18574 25ppm Cu,3ppm Pb,66ppm Zn, 1ppm W,1ppm Sn,0.1ppm Bi

8571 1ppm Pb,43ppm Zn,1ppm W, 1ppm Sn,0.3ppm Bi,890ppm Ba

18657 750ppm Cu,108ppm Pb,64ppm Zn, 1ppm W, 1ppm Sn,0.4ppm Bi

18573 3ppm Pb,52ppm Zn,1ppm W, 2ppm Sn,0.1ppm Bi,270ppm Ba

18572 17ppm Pb,47ppm Zn, 1ppm W,1ppm Sn, 0.6ppm Bi,4270ppm Ba

18571 1ppm Pb,11ppm Zn,1ppm W, 1ppm Sn,0.2ppm Bi,120ppm Ba

18569 2ppm Pb,65ppm Zn,2ppm W, 1ppm Sn,0.2ppm Bi,300ppm Ba

18706 64ppm Cu,6ppm Pb, 130ppm Zn,7ppm W, 2ppm Sn,1ppm Bi

8567 65ppm Pb,155ppm Zn, 1ppm W,1ppm Sn, 0.3ppm Bi,660ppm Ba

8568 83ppm Pb,36ppm Zn, 1ppm W,1ppm Sn, 5ppm Bi,260ppm Ba

8589 19ppm Cu,4ppm Pb, 23ppm Zn,1ppm W, 1ppm Sn,0.1ppm Bi

18588 103ppm Cu,79ppm Pb, 118ppm Zn,111ppm Ag, 1ppm Sn,0.2ppm Bi

18590 1.1ppm Cu,3ppm Pb,75ppm Zn, 1ppm W,1ppm Sn,0.1ppm Bi

8587 172ppm Cu,8ppm Pb,42ppm Zn, 1ppm W, 1ppm Sn,0.3ppm Bi

18556 27ppm Cu,32ppm Pb,85ppm Zn, 0.1ppm Ag,1ppm W,1ppm Sn, 0.2ppm Bi,1ppb Au

18559 19ppm Cu,6ppm Pb, 68ppm Zn,1ppm W, 1ppm Sn,0.2ppm Bi

18552 300 65 90 0.7 1 1 69 85

18553 400 7 49 0.2 1 1 39 30

18554 21 9 51 0.1 1 1 9.2 15

7927 7912 8221 800 B 790 2 8026 824 1 827 5 847 7 2092 5 2209 7 2248 1 2165 1 2041 8 2041 5 2002 7 2018 20185

LEGEND

18568 △ ROCK SAMPLE LOCATION

ROAD (NEW OR IMPROVED)

NEW CAMPSITE (CLEARED)

NEW HELICOPTER PAD (CLEARED)

NEW BRIDGE

SURVEY GRID

CLAIM BOUNDARY

CREEK

CLAIM BOUNDARIES TAKEN FROM GOVERNMENT CLAIM MAP

NOTE: Compiled from aerial photography at a scale of 1:75,000 flown Aug. 1970

Contour interval 20 metres.

0 100 200 300 400 500 metres

0 500 1000 1500 feet

SHEET INDEX

A	B
C	D

A1 A2 B1 B2 C1 C2 D1

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT

ROCK GEOCHEMISTRY SAMPLE RESULTS

SCALE 1:5,000

DRAWN BY	DATE	N.T.S.	PLAN
R P	NOV 1982	82M/8E	3
TRACED BY J S	DATE NOV 1982		

5 682 000 N

421 000 E

422 000 E

5 682 000N

5 681 000 N

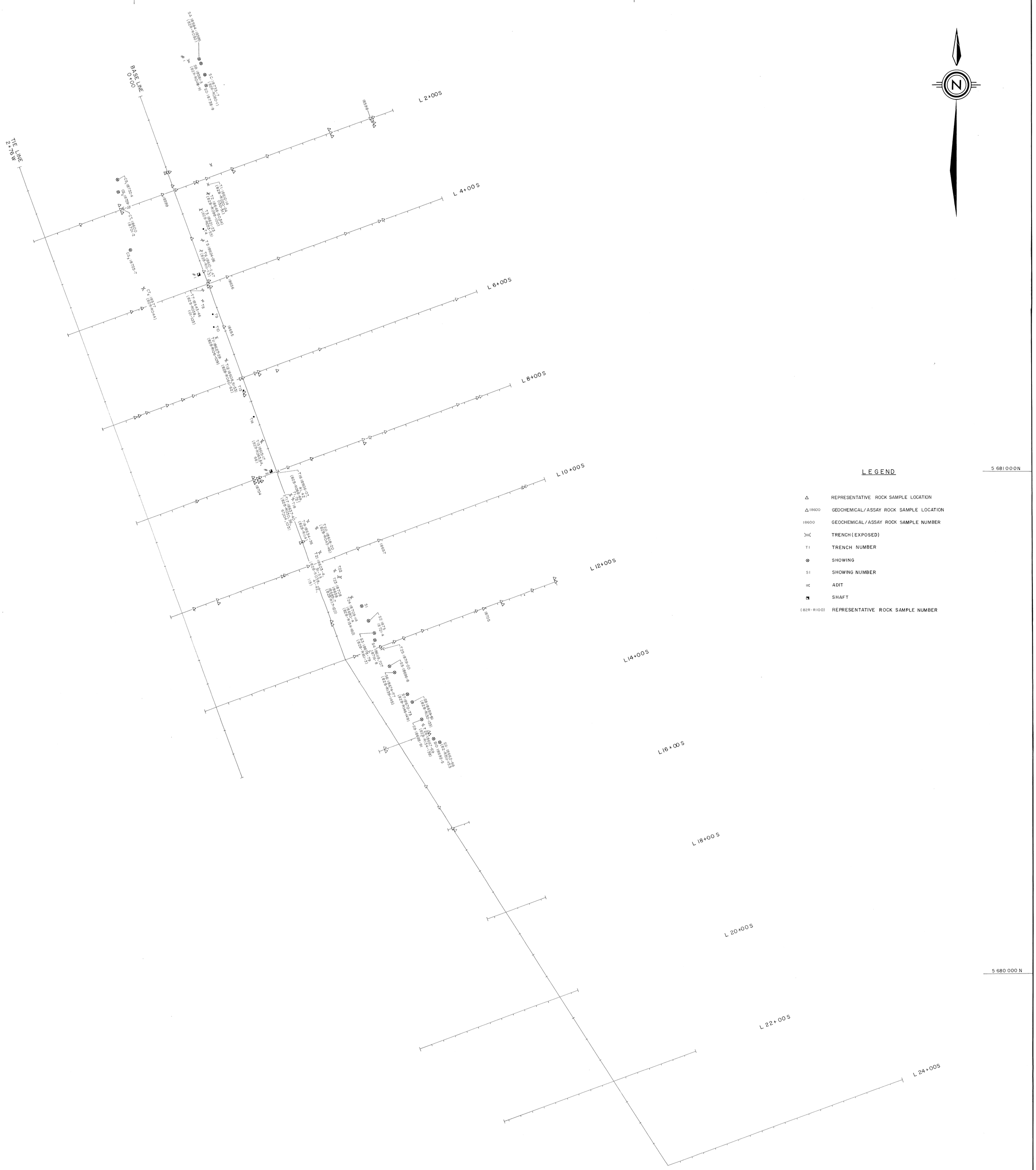
5 681 000N

5 680 000 N

5 680 000 N

421 000 E

422 000 E



SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT
GOAT MTN. GRID
SAMPLE LOCATIONS

0 50 100 150 200 metres

Scale 1:2,500

DRAWN BY R.P.	DATE NOV. 1982	N.T.S. 82 M/8 E	PLAN 4
TRACED BY J.S.	DATE DEC. 1982		

SELKIRK MOUNTAINS

(COLUMBIA MOUNTAINS)

COLUMBIA MOUNTAINS

SELKIRK

SHUSWAP METAMORPHIC COMPLEX

SHUSWAP METAMORPHIC COMPLEX

SHUSWAP METAMORPHIC COMPLEX

SHUSWAP METAMORPHIC COMPLEX

GOVERNMENT RESERVE

GOLDSTREAM

DOWNIE CREEK

DOWNIE

TREE FARM LICENCE 23

TREE FARM LICENCE #23 BLOCK 1

BLOCK 1

COLUMBIA MOUNTAINS

MONASHEE MOUNTAINS

NORTH LIMITS OF RAILWAY BELT

ARROWHEAD PROVINCIAL FOREST

LH MH

LH MH
LG MG

HÖY (1979)
WESTAIRS (1964)
GEOTEX (1982)

SELCO (1982)

LEGEND

(after Wheeler (1963), Sullivan (1965) Höy (1979) and Geotex (1982))

MESOZOIC OR PALEOZOIC (?)

- I-1 semi-concordant quartz monzonite
- I-2 discordant granite porphyry
- I undivided intrusive

LOWER PALEOZOIC - LARDEAU GROUP (?)

- J Jowett Formation: dark green tuffaceous volcanics, minor white dolomitic limestone
- Lu Upper Index Formation: basic volcanic flows and local tuffs, grey and green siliceous phyllite, phyllitic quartzite and phyllitic limestone.
- Ll Lower Index Formation: grey phyllite; minor local basal conglomerate
- L Lardeau Group: undivided
- B BADSHOT FORMATION: (fossiliferous) grey limestone

LOWER PALEOZOIC - HAMILL GROUP (?)

- H undivided
- M Mohican Formation: light green calcareous phyllite

Carbonate - Phyllite Division (Badshot Formation ?)

- C-3 calcareous phyllite; minor dolomite, limestone, rusty weathering schist.
- C-2 dolomite, limestone
- C-1 dark calcareous phyllite; minor chlorite phyllite, dolomite

Metavolcanic Phyllite Division

- V-5 light green quartz-chlorite phyllite, dark green chlorite phyllite; may also include units V-3 and V-4
- V-4d calc-silicate gneiss, biotite gneiss, rusty weathering calcareous schist, amphibolite, psammite
- V-4b rusty weathering calcareous phyllite, chlorite phyllite, sericite phyllite, dolomite, psammite.
- V-3 greenstone, massive to phyllitic, chlorite phyllite, minor talc-chlorite rock, calcareous phyllite, dolomite
- V-2 dolomite, limestone
- V-1 calcareous graphite phyllite, sericite phyllite; minor dolomite, limestone, chlorite phyllite

Calc-Silicate Gneiss Division

- C.S. calc-silicate gneiss, calcareous schist, biotite-hornblende gneiss; minor amphibolite

Quartzite Schist Division

- Q-4 quartzite; minor pelitic schist
- Q-3 pelitic (kyanite) schist; micaceous quartzite
- Q-2 quartzite, psammite, quartz-sericite phyllite; minor limy layers.
- Q-1 dark graphite schist, micaceous schist
- A Marsh Adams Formation: phyllitic quartzite

LOWER PALEOZIC - UPPER PROTEROZOIC (?) - HORSETHIEF CREEK GROUP

- A-2 pelitic schist, graphite schist; calcareous phyllite; minor psammite, greenstone
- A-1 dolomite, limestone

claim boundary of the J&L Property

- OVB overburden
- fault
- geological contact; defined, approximate, assumed
- antiform axial surface trace
- synform axial surface trace
- phase one anticline
- phase two synform
- foliation; lineation
- bedding, primary layering
- limits of mapping, outcrop
- sulphide mineralization
  1 - Standard (Cu-Zn)
  2 - Keystone (Pb-Zn-Cu)
  3 - Montgomery (Cu-Zn-Pb)
  4 - KJ (Pb-Zn)
  5 - Goldstream (Cu-Zn-Ag)
  6 - A&E (Pb-Zn-Ag-Au)
  7 - Roseberry (Au)
  8 - J&L (Pb-Zn-Ag-Au)
  9 - Mastodon (Pb-Zn-Ag-Cd)
  10 - Lead King (Pb-Zn)

N

0 1 2 3 4 MILES
0 1 2 3 4 5 METRES
Scale 1:50 000

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT
REGIONAL GEOLOGY
PRELIMINARY CORRELATION

DRAWN BY	DATE	N.T.S.	PLAN
R. PEGG	JAN. 1983.	82M/9,8,1	5
TRACED BY J.S.	DATE JAN. 1983.		

420 000E 421 000E 422 000E 423 000E 424 000E 425 000E

5 683 000N 5 682 000N 5 681 000N 5 680 000N 5 679 000N

UNMAPPED

OVB

823 LEVEL

975 LEVEL

Mc Kinnon Creek #2

Carnes Creek

Qtzite (cb)

Calc Sch

ch l Sch

ch-ser- chl Sch

cb (Lst) Sch + minor Qtz chl Sch

cb Sch + Qtz - Chl Sch

chl-Qtz Sch (cb)

cb Sch (ser, graph)

Qtz-Ser Sch

Chl-Qtz Sch

chl-Graph-Qtz Sch

cb Sch Lst

Ch-Qtz Sch+Lst +cb +minor chert

Qtz-Chl-Ser Sch + Qtzite

calc Graph Sch

Chl Qtz Sch

Qtz-chl Sch

Qtz-ser-ch Sch

Qtz ser ser Sch

Qtzite Bchl-qtz Sch

Qtz Graph Sch

Qtzite + Chl Qtz Sch

Chl-Qtz Sch

Qtzite + Qtz-Ser Sch

Chl-cb Sch

chl-cb Sch

Chl Sch (minor cb & bl)

Chl-Qtz Sch

Graph Sch

Chl-ser Sch

Qtz-Chl (qtz vein)

Chl-Cb Sch + cb

Ser (?) Sch

Qtzite + Qtz-Ser Sch 2092.5

Chl-Qtz Sch

Chl-Qtz-Ser Sch M1

Lst 2209.7 +200

Dol.

Calc + Graph Sch

Qtzite 2048.7

Qtz-Chl Sch minor Lst

Grey Phyllite

Chl-Qtz Sch x1165.1

2440.5

Chl-Qtz Sch

Graph-cb Sch

Chl-Qtz Ser Sch

Chl-cb Sch

Chl Sch

Chl-Qtz Sch

Chl-ser Sch

Qtz-Chl (qtz vein)

Chl-Qtz Sch

Chl-Cb Sch + cb

Ser (?) Sch

2002.7

2041.5

2021.8

Chl-cb, cb, Dol + Lst

Chl-cb Sch

Py

Dol

Chl-Qtz Sch + Qtzite

Chl-Cb Sch + Cb

Chl-Cb Sch

Chl-cb Sch

Dol Lst

Lst

Qtz (Pb)

Chl-Cb Sch

Chl-Qtz Sch

Chl-cb Sch

Qtzite

Qtzite + minor Chl-Qtz Sch

Chl-Ser Qtz Sch

Qtz-Chl-Ser Sch

Chl-Cb Sch

cb Lst

Qtzite (minor Chl-Qtz Sch)

Chl-Qtz Sch

Chl-cb Sch

Qtzite + Qtz-Ser Sch

Qtzite + Chl-Qtz Sch

Qtzite + Chl-qtz Sch

Qtzite + Chl-qtz Graph Sch

Qtzite + Chl-qtz Ser Sch

Qtzite + Chl-qtz Sch

Qtzite + minor Chl-qtz Sch

Qtzite + Qtz-Chl Sch

Qtzite + Qtz-ser Sch

Qtzite + Qtz-ser-Chl Sch

Qtzite + Qtz ser Sch

Qtzite + Qtz-Chl Sch

Qtzite + Chl-Qtz Sch

Qtzite + Chl-qtz Sch

Qtzite + Chl-qtz Graph Sch

Qtzite + Chl-qtz Ser Sch

Qtzite + Chl-qtz Sch

Qtzite + minor Chl-qtz Sch

Qtzite + Chl-qtz Sch

Qtzite + Chl-qtz Ser Sch

Qtzite + Chl-qtz Sch

Qtzite + Chl-qtz Sch

Qtzite + Chl-qtz

5 682 000 N

421 000 E

422 000 E

5 682 000 N

5 681 000 N

5 681 000 N

5 680 000 N

5 680 000 N

421 000 E

422 000 E



SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT
GOAT MTN. GRID
GEOLOGY

0 50 100 150 200 metres

Scale 1:2,500

DRAWN BY R.P	DATE NOV. 1982.	N.T.S. 82 M/8E	PLAN 7
TRACED BY J.S.	DATE DEC. 1982.		

LH MH
LG MG

SELKIRK

TREE FARM LICENCE 23

COLUMBIA MOUNTAINS

BLOCK 1

MOUNTAINS

PURCELL MOUNTAINS

COLUMBIA RIVER

ARROWHEAD RANGE

FRISBY RIDGE

ARROWHEAD

SELKIRK

ARROWHEAD PROVINCIAL FOREST

LEGEND

- J & L CLAIM AREA BOUNDARY
- QUESTOR AIRBORNE ELECTROMAGNETIC SURVEY AREA BOUNDARY
- DIGHEM AIRBORNE ELECTROMAGNETIC SURVEY AREA BOUNDARY
- J & L GEOLOGY AND GEOCHEMISTRY SURVEY AREA BOUNDARY

N

0 1 2 3 4 MILES
0 2 3 4 5 METRES
Scale 1:50 000

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT

1982 SURVEY LOCATIONS

DRAWN BY	DATE	N.T.S.	PLAN
R. PEGG	JAN. 1983.	82M/1,8	8
TRACED BY J.S.	DATE JAN. 1983.		

LH MH
LG MG

I
II
III
IV
V
VI
VII
VIII
IX
X
XI
XII
XIII
XIV
A
B
f3
f4
1
2
3

SELKIRK MOUNTAINS

TREE FARM LICENCE 23

BLOCK 1

COLUMBIA MOUNTAINS

MONASHEE MOUNTAINS

RAINBOW RANGE

FRISBY RIDGE

ARROWHEAD RANGE

ARROWHEAD PROVINCIAL FOREST

SELKIRK

LEGEND

QUESTOR SURVEY BOUNDARY

DIGHEM SURVEY BOUNDARY

J & L CLAIM AREA BOUNDARY

ELECTROMAGNETIC ANOMALY

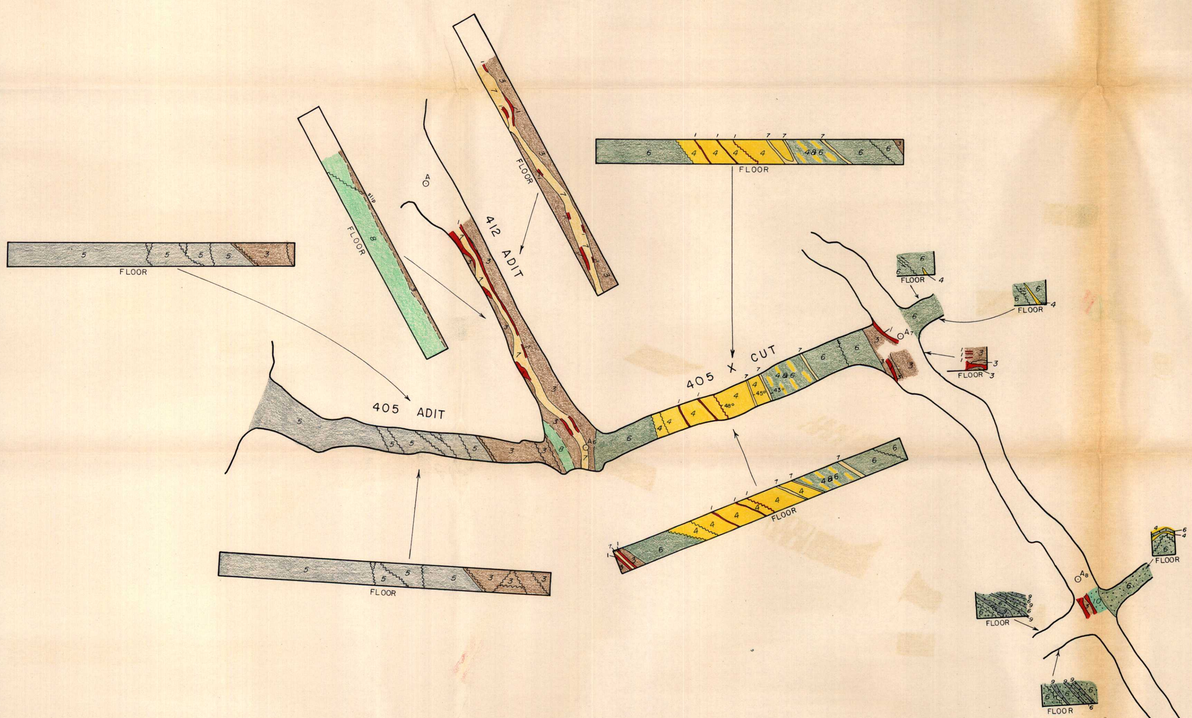
0 1 2 3 4 MILES
0 1 2 3 4 5 METRES
Scale 1:50 000

SELCO INC. EXPLORATION WESTERN CANADA

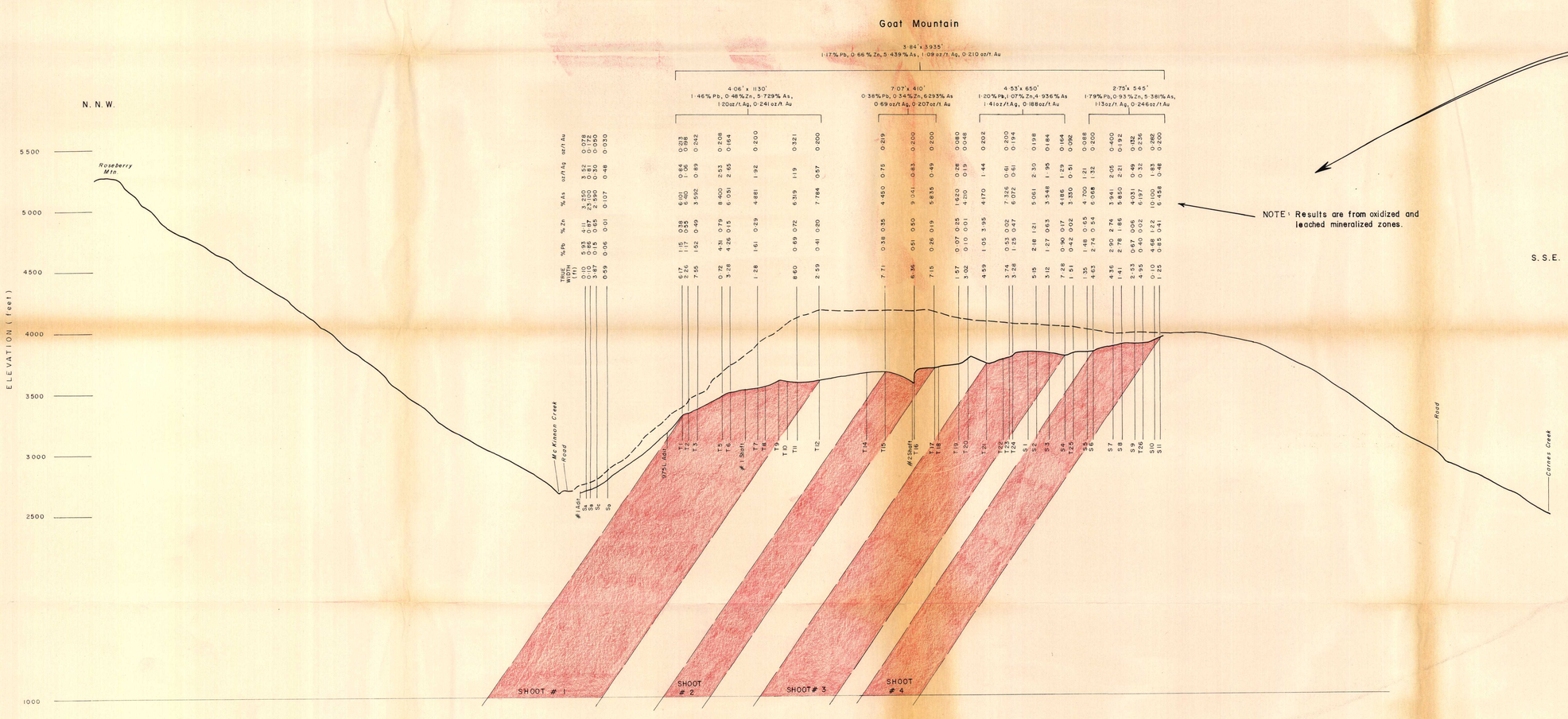
J & L PROJECT

AIRBORNE ELECTROMAGNETIC SURVEYS ANOMALY LOCATIONS

DRAWN BY	DATE	N.T.S.	PLAN
A. WYNNE	JAN. 1983.	82M/1,8	9
TRACED BY J. S.	DATE JAN. 1983.		

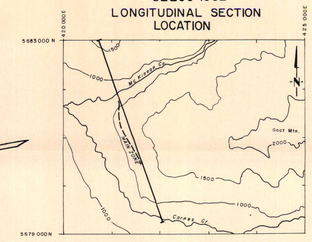

FLOOR
412 ADIT
405 ADIT
405 X CUT
FLOOR
FLOOR
FLOOR

Goat Mountain

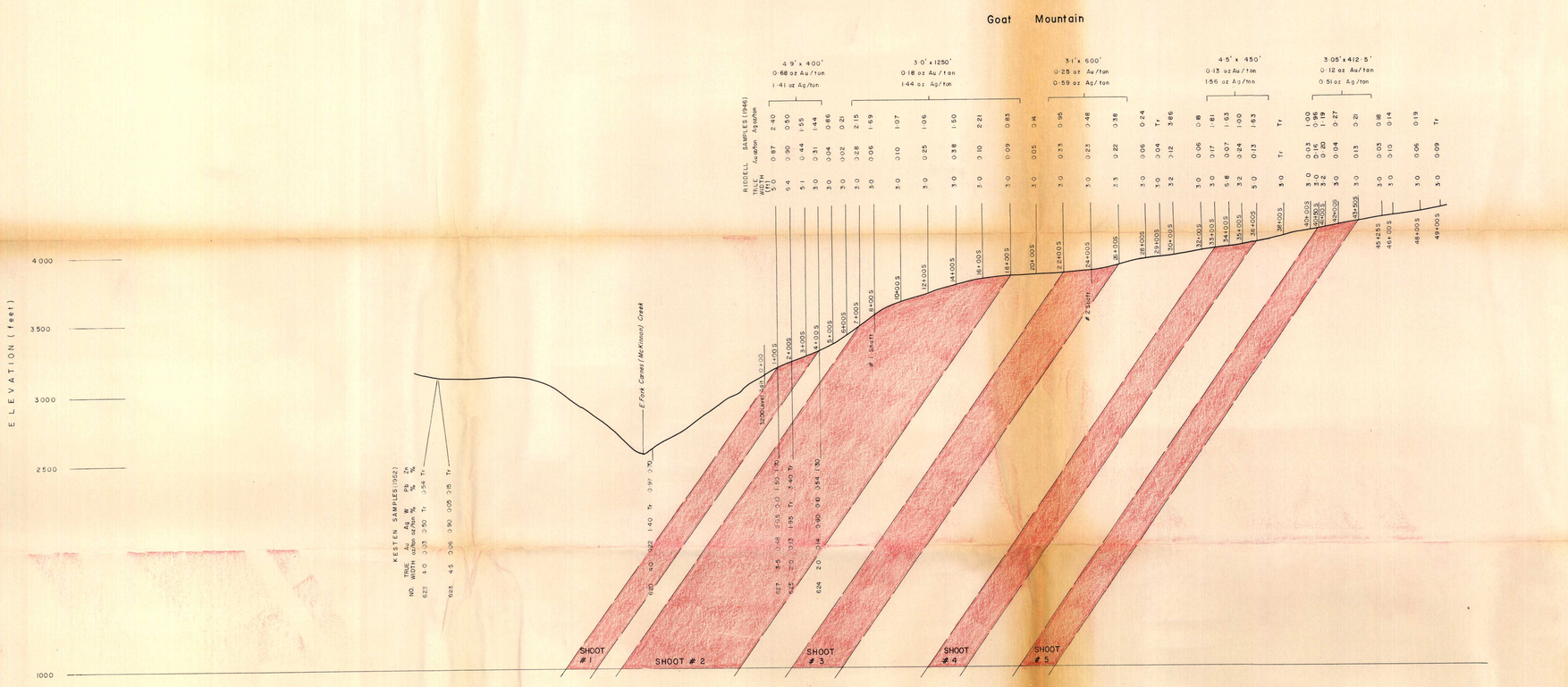


NOTE: Results are from oxidized and leached mineralized zones.

SELCO 1982
LONGITUDINAL SECTION
LOCATION



Goat Mountain



LONGITUDINAL SECTION - SURFACE SAMPLING
June, 1952.
by S.N.K. (Asarco, 1952); R.K. (Raindor, 1946)

0 100 200 300 400 500 metres
0 400 800 1200 1600 feet
Scale 1" = 400'

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT
LONGITUDINAL SECTIONS

DRAWN BY	DATE	N.T.S.	PLAN
R. PEGG	JAN. 1983.	82M/8E	11
TRACED BY J.S.	DATE JAN. 1983.		

82 M/SE

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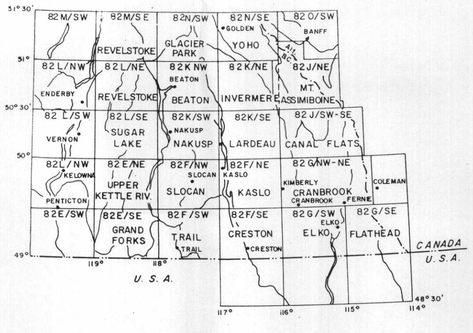


INDEX MAP

JORDAN RANGE

Scale 1:100 000

(1 cm = 1 km)

km 2 0 2 4 6 8 10 12 14 km

1 km = 0.6214 mi.

Universal Transverse Mercator Projection

Contour Interval 100 ft

LEGEND

Sn	W
Bi	As
Cu	Pb
Zn	Ba
Mo	

Maps and indexes with price lists may be obtained from the Map Production Division, Surveys and Mapping Branch, Ministry of the Environment, Parliament Buildings, Victoria, B.C.

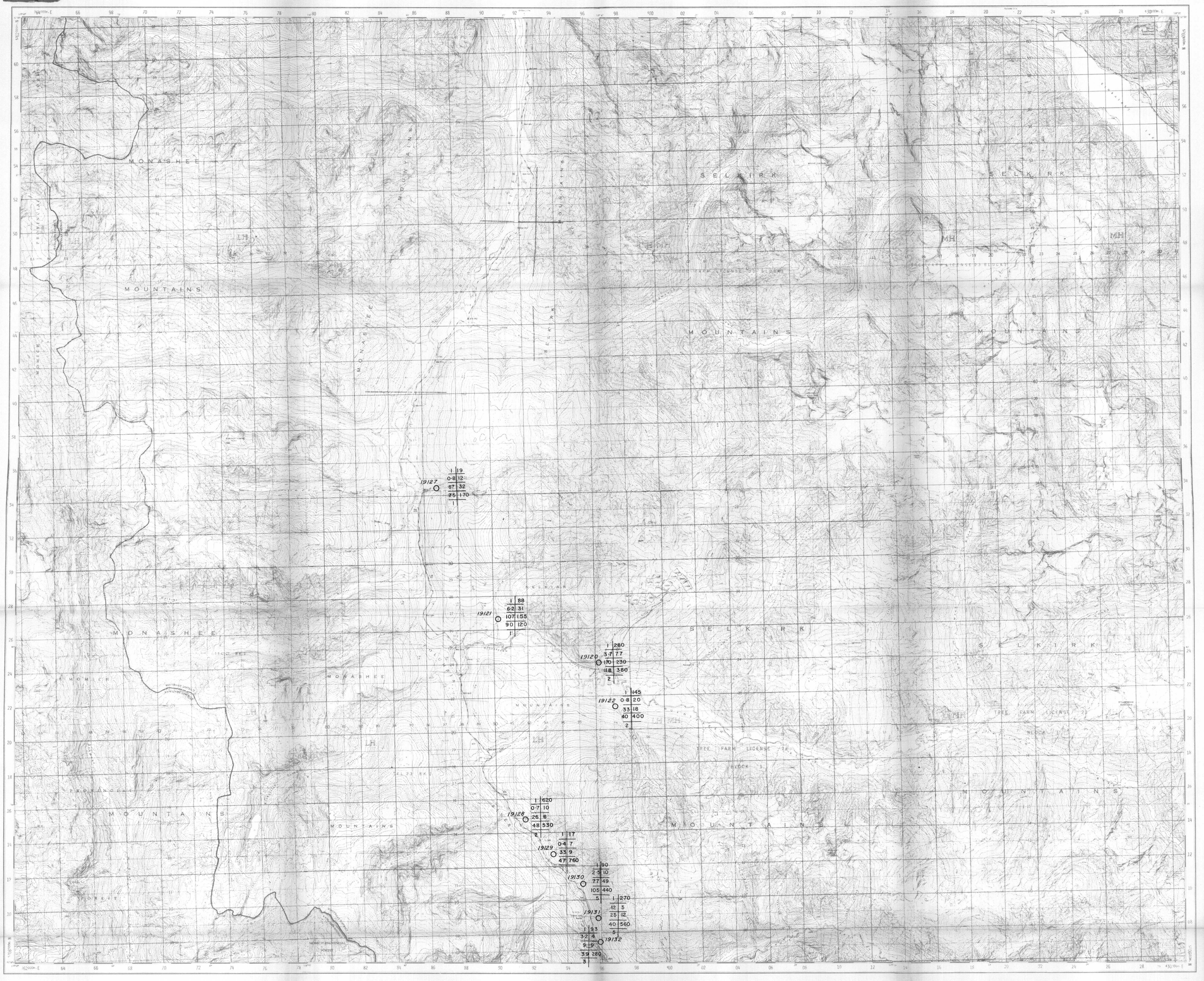
SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT

HEAVY MINERAL SAMPLING RESULTS

DRAWN BY	DATE	N.T.S.	PLAN
B. GRANT	DEC. 1982.	82 M/SE	12
TRACED BY J. S.	DATE JAN. 1983.		

82M/NE



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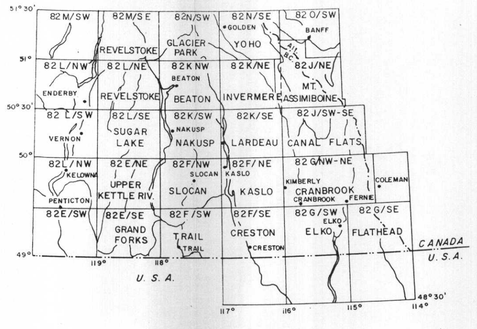

INDEX MAP

GOLDSTREAM RIVER

Scale 1:100 000

(1 cm = 1 km)

km 2 0 2 4 6 8 10 12 14 km

1 km = 0·6214 mi.

Universal Transverse Mercator Projection

Contour Interval 100 ft

LEGEND

Sn	W
Bi	As
Cu	Pb
Zn	Ba
Mo	

Maps and indexes with price lists may be obtained from the Map Production Division, Surveys and Mapping Branch, Ministry of the Environment, Parliament Buildings, Victoria, B.C.

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT

HEAVY MINERAL SAMPLING RESULTS

DRAWN BY B. GRANT	DATE DEC. 1982.	N.T.S. 82 M/NE	PLAN 13
TRACED BY J.S.	DATE JAN. 1983.		