

1981

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE

WAY 1-23, BULL 1-5, CLIMAX 1-11

POST 1 AND MACC MINERAL CLAIMS

LIARD MINING DIVISION, BRITISH COLUMBIA
N.T.S. 104-O-16E and W
Latitude: 59°56'N; Longitude 130°15'W

OWNER: REGIONAL RESOURCES LTD.

UNDER OPTION TO

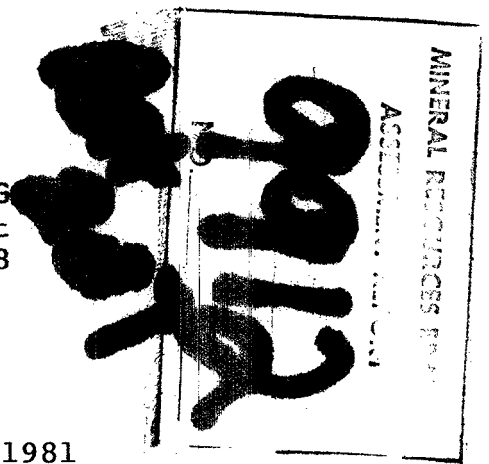
AMAX OF CANADA LIMITED

OPERATOR: REGIONAL RESOURCES LTD.

CONSULTANT: CORDILLERAN ENGINEERING

BY

CORDILLERAN ENGINEERING
1418-355 Burrard Street
Vancouver, B.C. V6C 2G8



DATE SUBMITTED: DECEMBER, 1981

WORK PERIOD: June 1 - Oct. 20, 1981

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ACCOMPANYING REPORTS:

RE: AIRBORNE GEOPHYSICS:

1981 GEOPHYSICAL ASSESSMENT REPORT

Midway Property

By: J.L.LeBel, AMAX, Vancouver and
 Dighem Limited, Toronto

RE: GROUND EM:

GEOPHYSICAL REPORT on a
 PULSE ELECTROMAGNETOMETER SURVEY

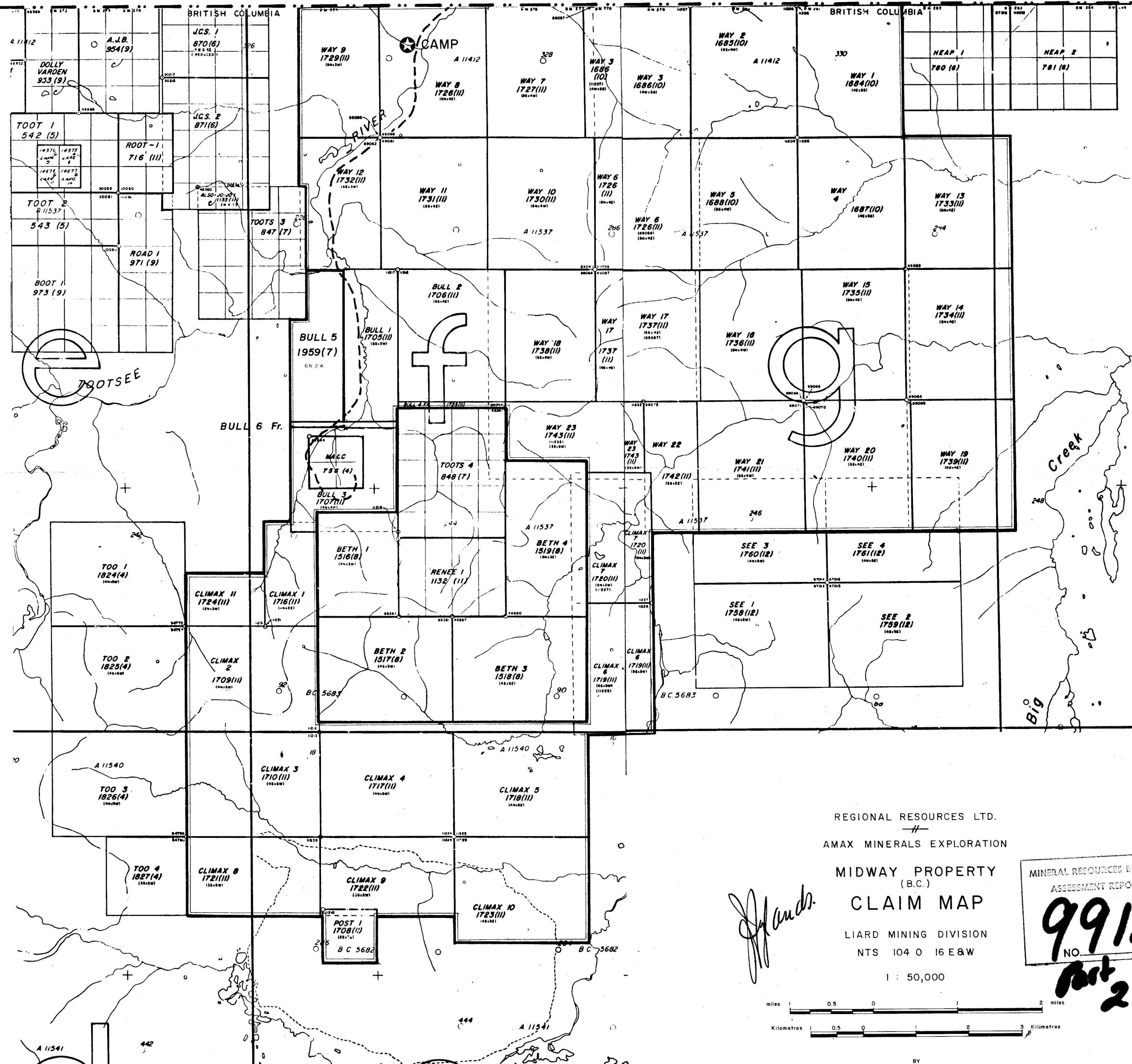
Midway Property

By: Glen E.White Geophysical Consulting
 Date of Report: October 28, 1981

RE: GRAVITY:

MIDWAY PROPERTY GRAVITY SURVEY

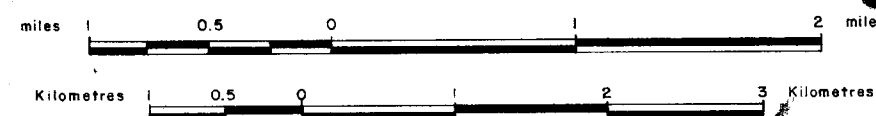
By: Ager, Berretta & Associates Inc.
 Date of Report: November, 1981



REGIONAL RESOURCES LTD.
AMAX MINERALS EXPLORATION
MIDWAY PROPERTY
(B.C.)
CLAIM MAP
LIARD MINING DIVISION
NTS 104 0 16 E&W
1 : 50,000

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
9912
NO.

Part 2 of 7

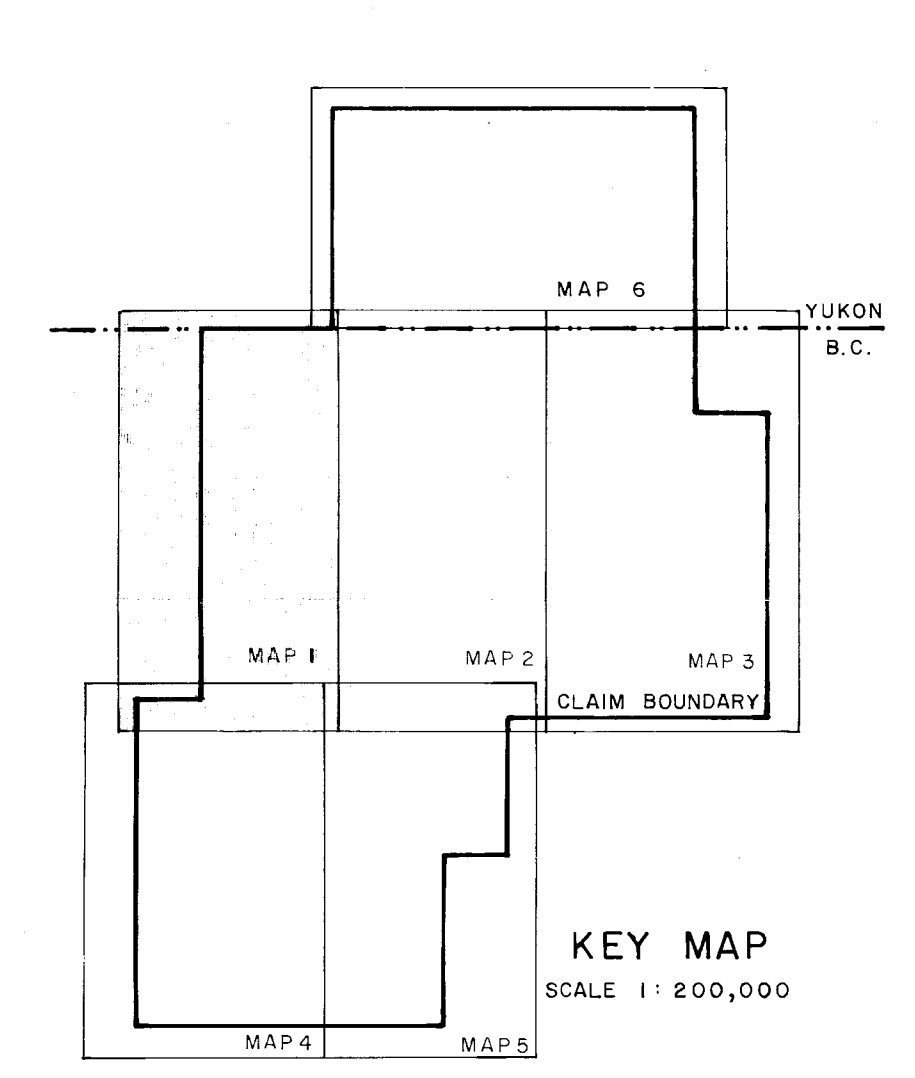
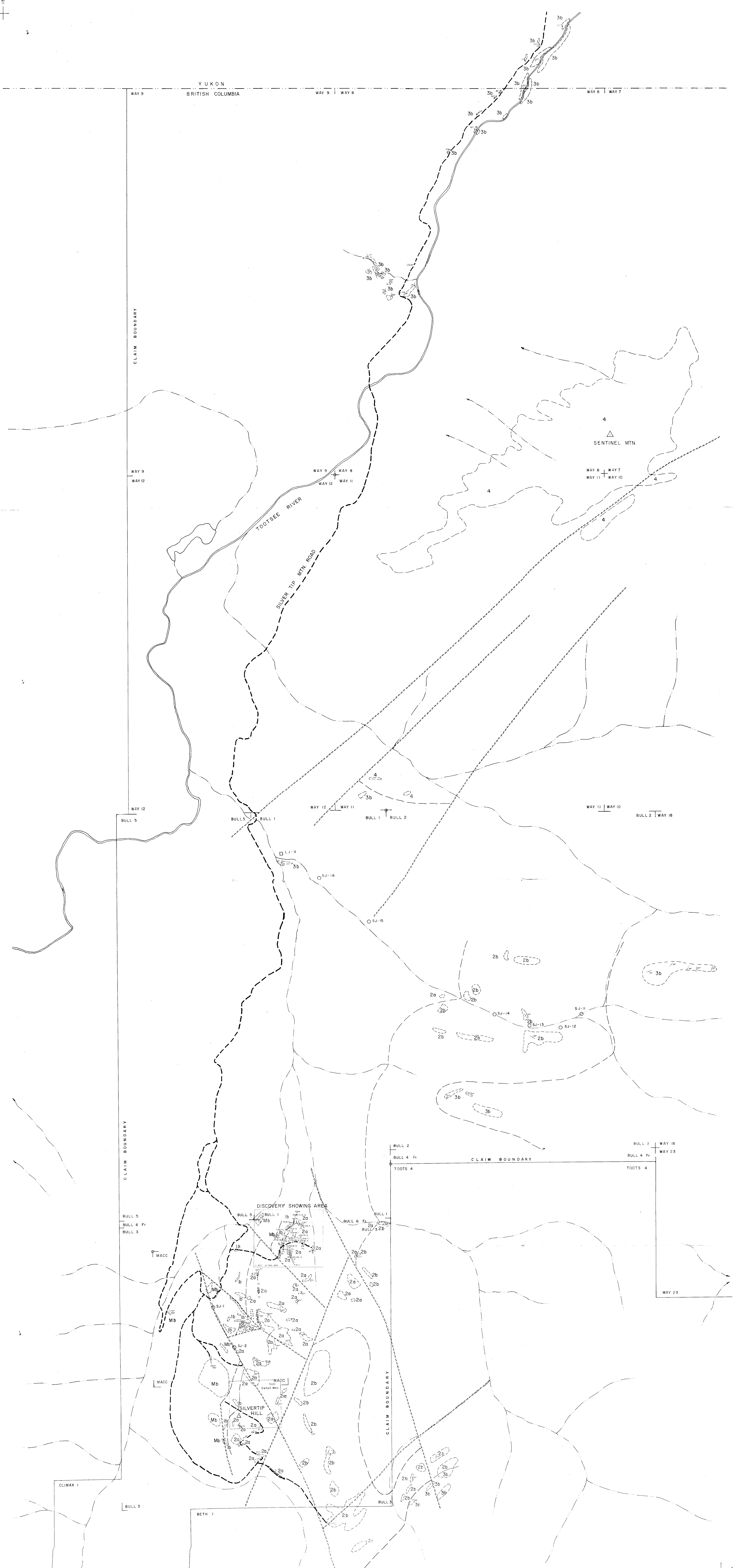


BY
CORDILLERAN ENGINEERING
1418-355 BARRARD STREET
VANCOUVER, B.C. V6C 2G8

100°30'

59°53'

100°17'



EXPLANATION

- Barite / exhalite horizon
- Outcrop
- Geological contact
- Fault
- Bedding attitude (normal, overturned)
- Anticline
- Syncline
- Foliation
- Claim corner post
- Legal corner post location (claims plotted from 1:50,000 claim map and local surveys)
- Prospectors sample sites - stream sediment, soil

LEGEND

- UPPER DEVONIAN**
- UPPER SYLVESTER FORMATION**
- 4** Meta, felsic volcanics, coarse grained metadiorite sills, minor pyroxenite
- LOWER SYLVESTER FORMATION**
- 3b** Interbedded light green to black chert, phyllite, dark grey calcareous sandstone and dark grey quartzite
 - 3a** Carbonaceous, siliceous black argillite, minor light grey bedded barite, minor light grey to buff siliceous exhalite
 - 2b** Grey massive to laminated sandstone, fine to coarse grained conglomerate, minor grey to black sand-banded argillite
 - 2a** Dark grey to black sand-banded argillite, massive carbonaceous siliceous black argillite, minor light grey bedded to nodular barite and light grey to buff siliceous exhalite
 - 1b** Grey massive to laminated sandstone, fine to coarse grained conglomerate, minor grey to black sand-banded argillite
 - 1a** Carbonaceous siliceous black argillite, minor light grey to buff siliceous exhalite
- MIDDLE DEVONIAN**
- M^c DAME FORMATION**
- Mb** Felsic grey dolomite, dolomitic limestone, fossiliferous limestone
 - Ma** White coarse grained metapelite

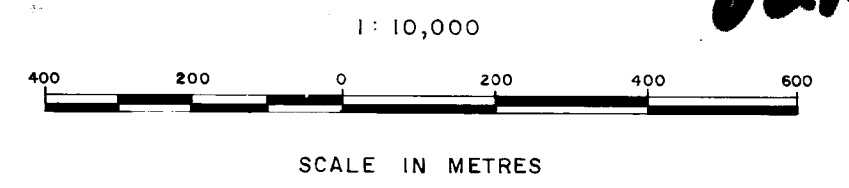
REGIONAL RESOURCES LTD.
AMAX MINERALS EXPLORATION

MIDWAY PROPERTY

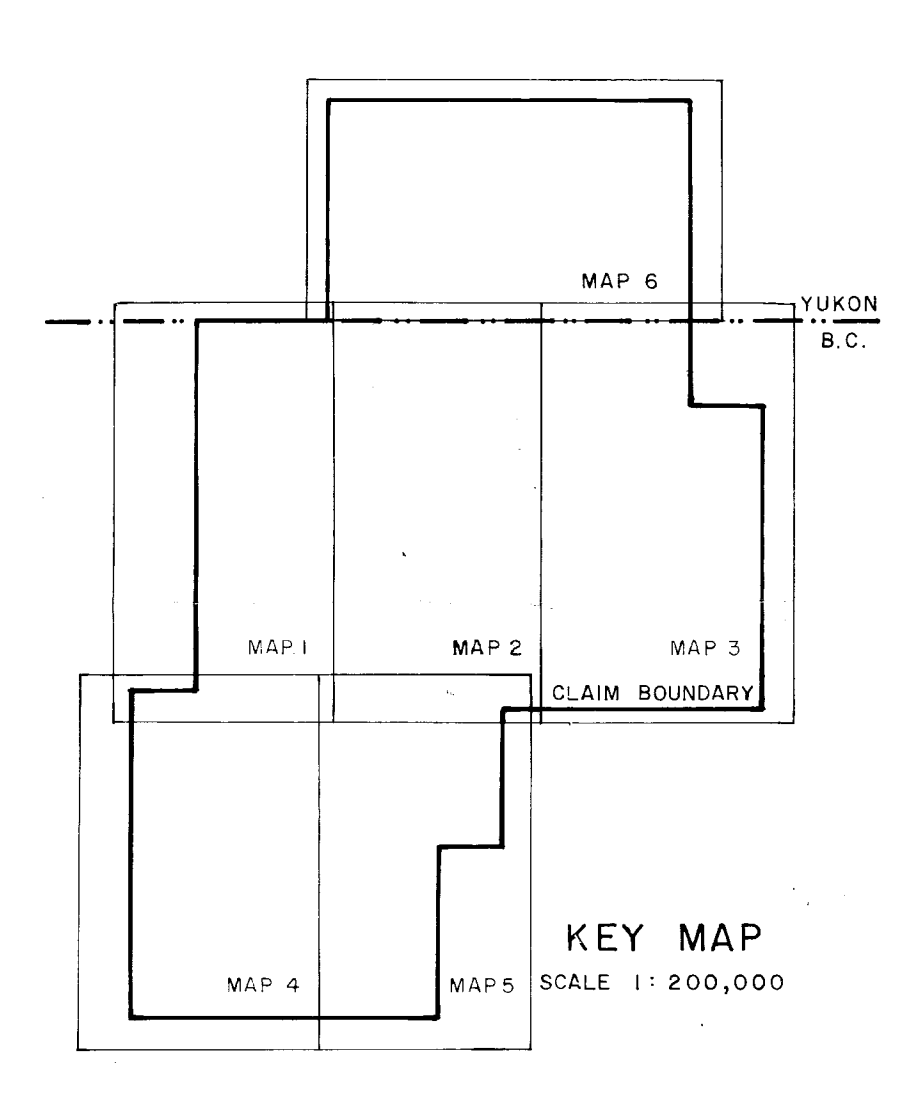
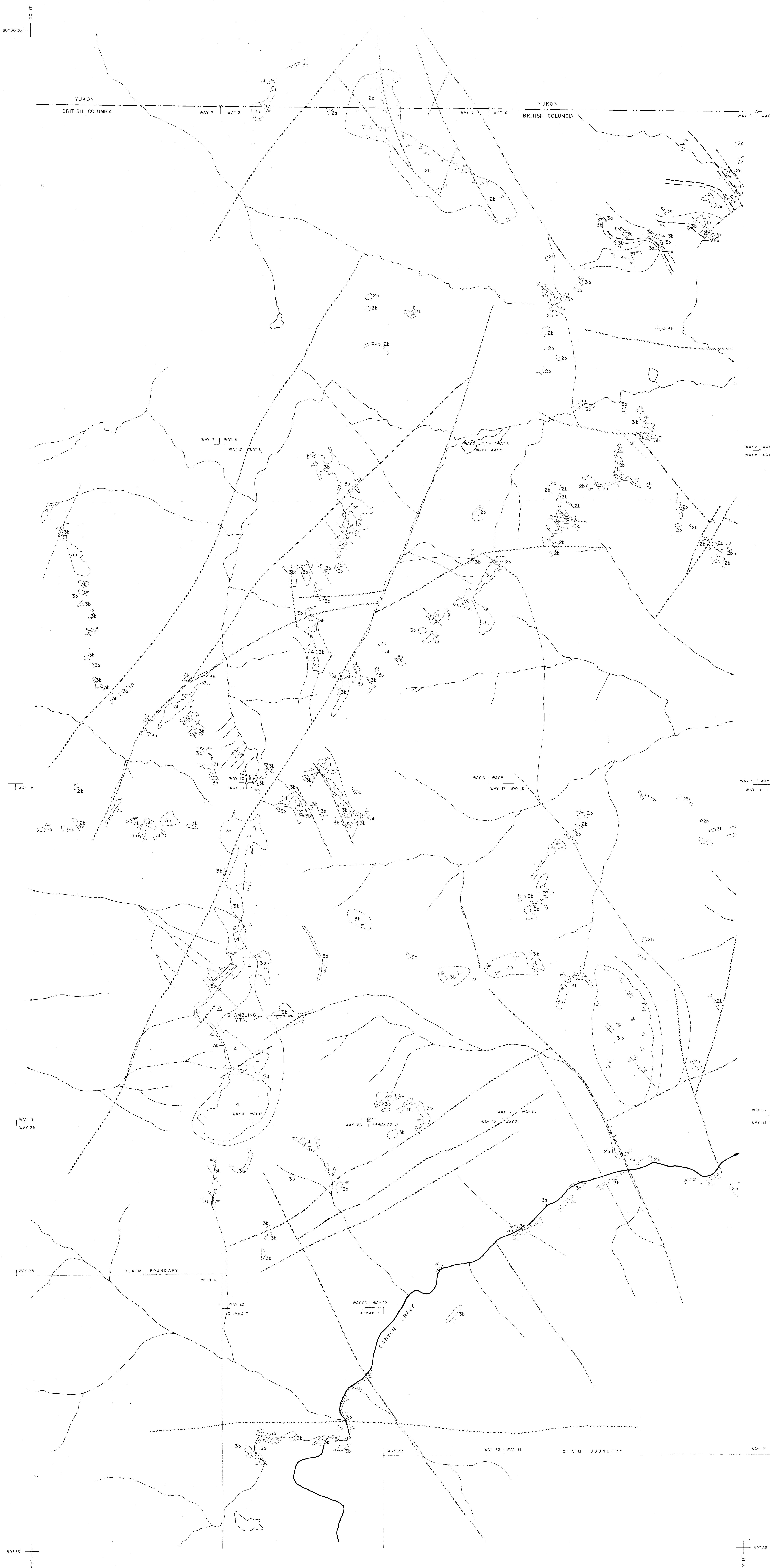
GEOLOGY
MAP #1

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
9912
NO. **Part 2 of 7**

LIARD MINING DIVISION, B.C.
NTS 104 0



BY
CORDILLERAN ENGINEERING
448-555 BURNARD STREET
VANCOUVER, B.C. V6C 2G8



EXPLANATION

- Barite / exhalite horizon
- Outcrop
- Geological contact
- Fault
- Bedding attitude (normal, overturned)
- Anticline
- Syncline
- Foliation
- Claim corner used Legal corner location
(claims plotted from 1:50,000 claim map and local surveys)

LEGEND

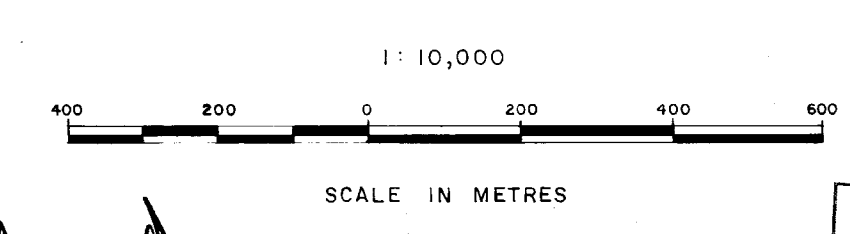
- UPPER DEVONIAN**
- UPPER SYLVESTER FORMATION**
- 4** *Mafic, felsic volcanics, coarse grained metadiorite sills, minor gneissite*
- LOWER SYLVESTER FORMATION**
- 3b** *Interbedded light green to black chert, phyllite, dark grey calcareous sandstone and dark grey quartzite*
 - 3a** *Carbonaceous, siliceous block argillite, minor light grey bedded barite, minor light grey to buff siliceous exhalite*
 - 2b** *Grey, massive to laminated sandstone, fine to coarse grained conglomerate, minor grey to black sand-banded argillite*
 - 2a** *Dark grey to black sand-banded argillite, massive carbonaceous siliceous block argillite, minor light grey bedded to nodular barite and light grey to buff siliceous exhalite*
 - 1b** *Grey massive to laminated sandstone, fine to coarse grained conglomerate, minor grey to black sand-banded argillite*
 - 1a** *Carbonaceous siliceous block argillite, minor light grey to buff siliceous exhalite*
- MIDDLE DEVONIAN**
- MF DAME FORMATION**
- Mb** *Feldt grey dolomite, dolomitic limestone, fossiliferous limestone*
 - Ma** *White coarse grained metagranite*

REGIONAL RESOURCES LTD.
AMAX MINERALS EXPLORATION

MIDWAY PROPERTY
GEOLOGY

MAP # 2

LIARD MINING DIVISION, B.C.
NTS 104 0



[Signature]

CORDILLERAN ENGINEERING
418-355 BURNARD STREET
VANCOUVER, B.C. V6C 2B8

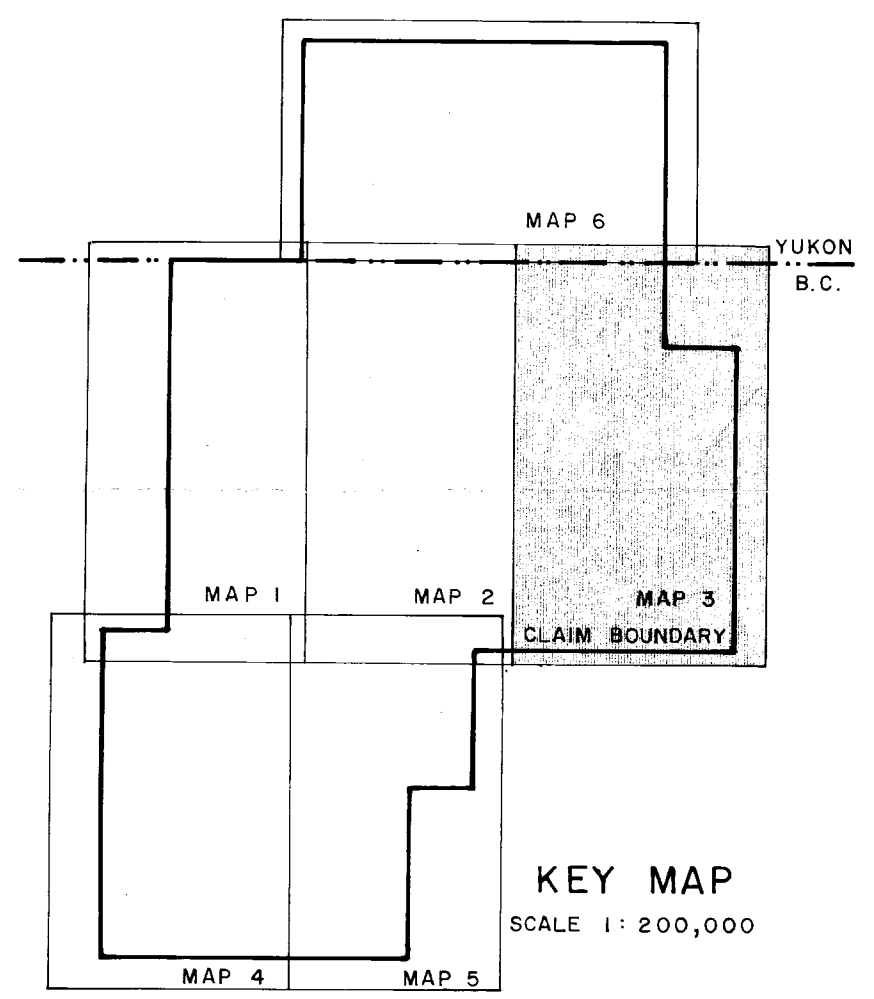
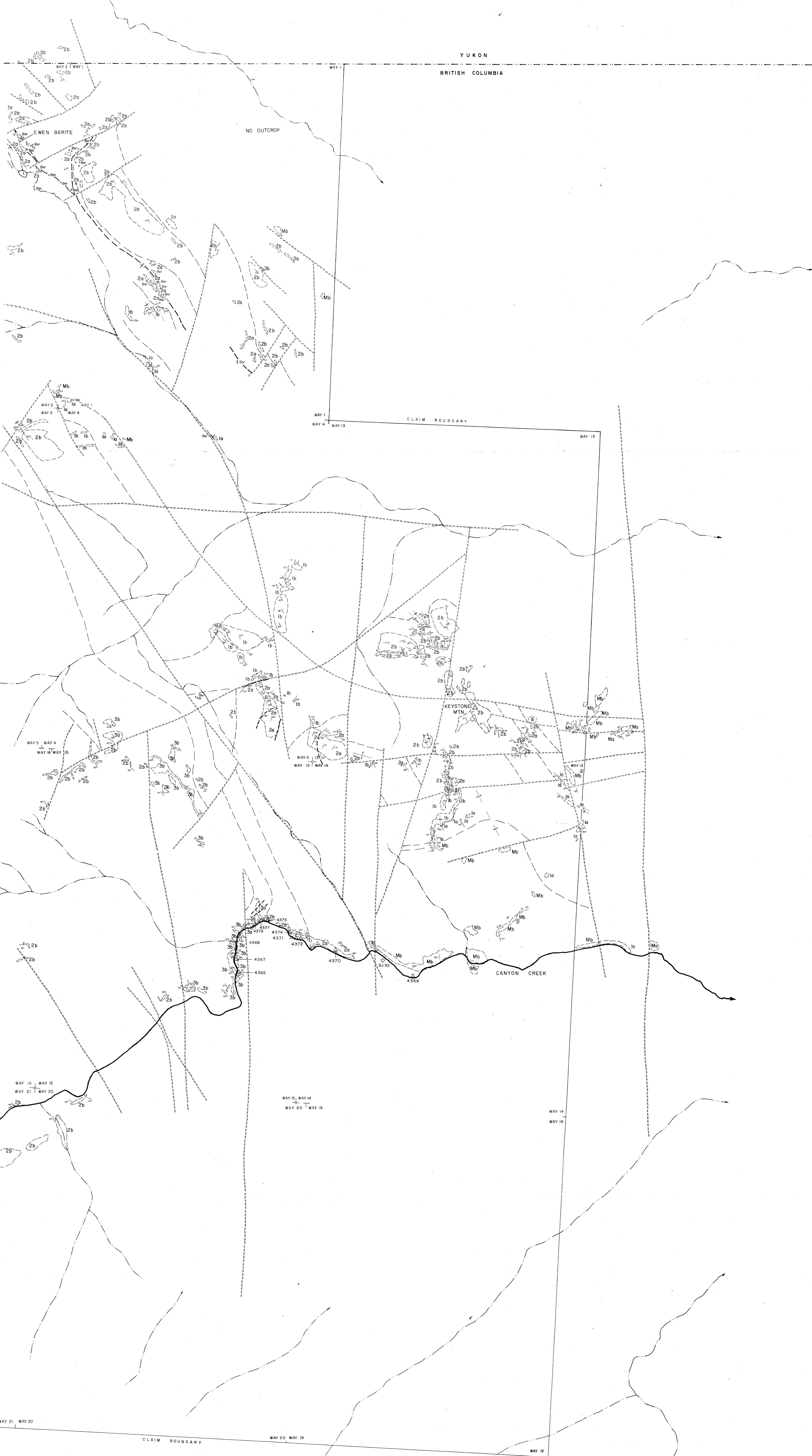
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
9912
FILE 207

NOVEMBER 1981

PLATE 3

60°00'30" N

YUKON
BRITISH COLUMBIA



EXPLANATION

- Barite/exhalite horizon
- Outcrop
- Geological contact
- Fault
- Bedding attitude (normal, overturned)
- Anticline
- Syncline
- Foliation
- Claim corner post (Legal corner post location)
(claims plotted from 1:50,000 claim map and local surveys)
- 4370 SJ-32
- Prospector's sample site - rock; stream sediment

LEGEND

- UPPER DEVONIAN
- UPPER SYLVESTER FORMATION
- 4** Mafic, felsic volcanics, coarse grained metadiorite sills, minor syenites
- LOWER SYLVESTER FORMATION
- 3b** Interbedded light grey to black chert, phyllite, dark grey calcareous sandstone and dark grey quartzite
 - 3a** Carbonaceous, siliceous black argillite, minor light grey bedded barite, minor light grey to buff siliceous exhalite
 - 2b** Grey, massive to laminated sandstone, fine to coarse grained conglomerate, minor grey to black sand-banded argillite
 - 2a** Dark grey to black sand-banded argillite, massive carbonaceous siliceous black argillite, minor light grey bedded to nodular barite and light grey to buff siliceous exhalite
 - 1b** Grey massive to laminated sandstone, fine to coarse grained conglomerate, minor grey to black sand-banded argillite
 - 1a** Carbonaceous siliceous black argillite, minor light grey to buff siliceous exhalite
- MIDDLE DEVONIAN
- M'DAME FORMATION
- MD** Felsic grey dolomite, dolomitic limestone, fossiliferous limestone
 - MO** White coarse grained metapelite

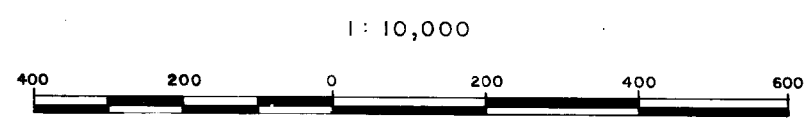
REGIONAL RESOURCES LTD.
AMAX MINERALS EXPLORATION
MIDWAY PROPERTY

GEOLOGY

MAP #3

LIARD MINING DIVISION, B.C.
NTS 104 0

Johnston



SCALE IN METRES
BY
CORDILLERAN ENGINEERING
418-355 BURNARD STREET
VANCOUVER, B.C. V6C 2B8

MINERAL RESOURCES LTD. ASSOCIATION REG. NO. 9912
NO. 2047

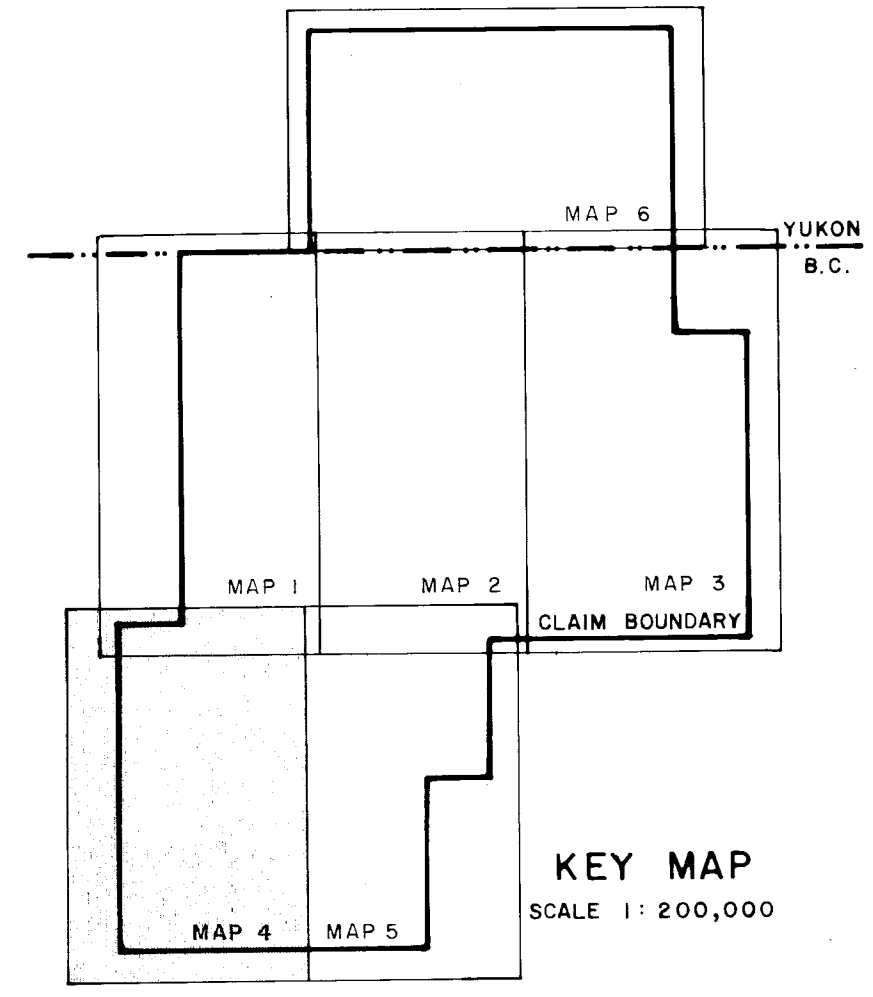
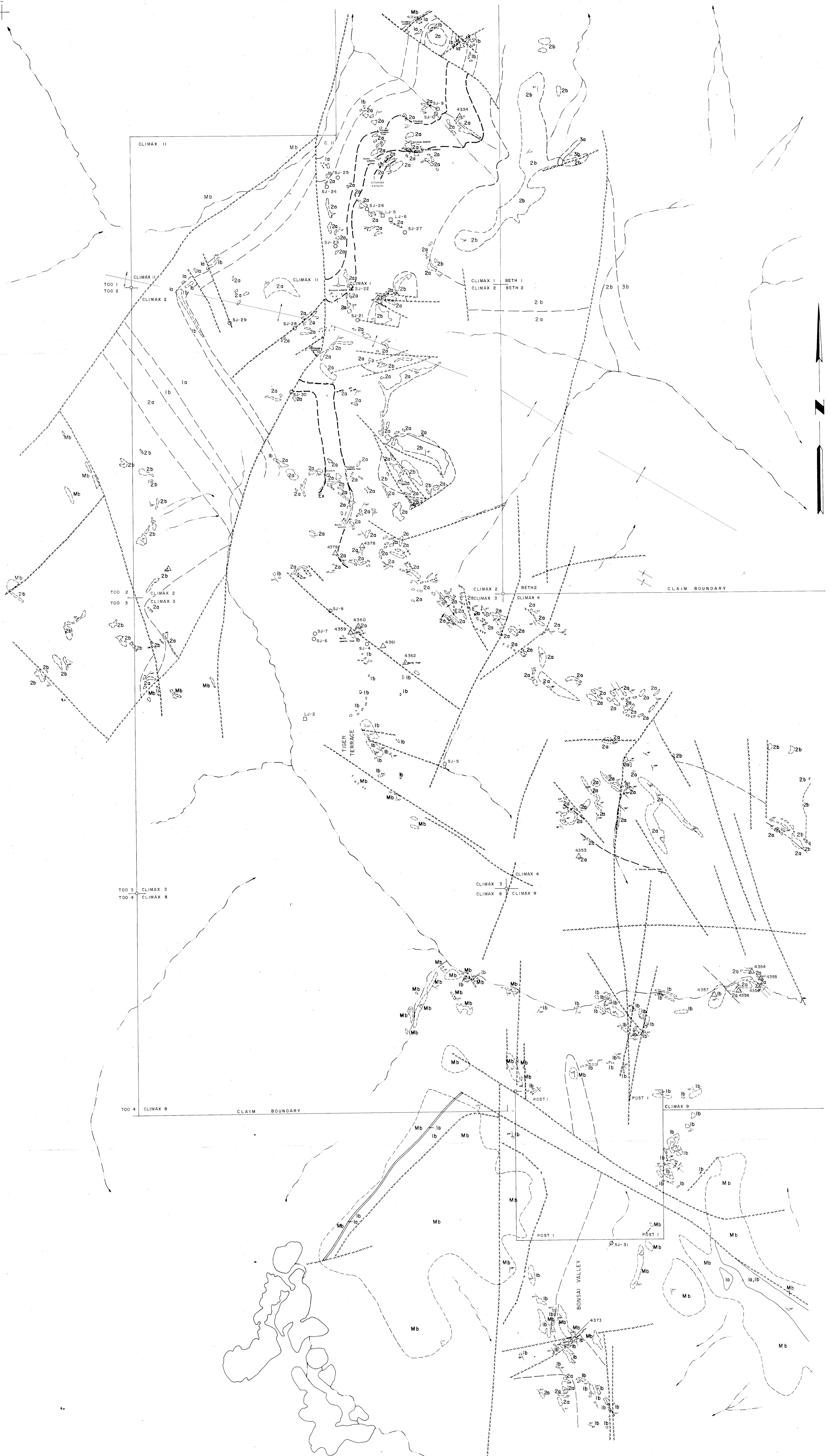
NOVEMBER 1981

PLATE 4

59°55' N

132°07' W

59° 55' 130° 24'



EXPLANATION

- Barite / exhalite horizon
- Outcrop
- Geological contact
- Fault
- Bedding attitude (normal, overturned)
- Anticline
- Syncline
- Fallation
- Claim corner post Legal corner post location
(Claims plotted from 1:50,000 claim map and local surveys)
- 4354 L.J.2
- 4356 L.J.2
- 4357 L.J.2
- 4358 L.J.2
- 4359 L.J.2
- 4360 L.J.2
- 4361 L.J.2
- 4362 L.J.2
- 4363 L.J.2
- 4364 L.J.2
- 4365 L.J.2
- 4366 L.J.2
- 4367 L.J.2
- 4368 L.J.2
- 4369 L.J.2
- 4370 L.J.2
- 4371 L.J.2
- 4372 L.J.2
- 4373 L.J.2
- 4374 L.J.2
- 4375 L.J.2
- 4376 L.J.2
- 4377 L.J.2
- 4378 L.J.2
- 4379 L.J.2
- 4380 L.J.2
- 4381 L.J.2
- 4382 L.J.2
- 4383 L.J.2
- 4384 L.J.2
- 4385 L.J.2
- 4386 L.J.2
- 4387 L.J.2
- 4388 L.J.2
- 4389 L.J.2
- 4390 L.J.2
- 4391 L.J.2
- 4392 L.J.2
- 4393 L.J.2
- 4394 L.J.2
- 4395 L.J.2
- 4396 L.J.2
- 4397 L.J.2
- 4398 L.J.2
- 4399 L.J.2
- 4400 L.J.2

LEGEND

- UPPER DEVONIAN**
- UPPER SYLVESTER FORMATION**
- 4** Mafic, felsic volcanics, coarse grained metadiorite sills, minor pyroxenite
- LOWER SYLVESTER FORMATION**
- 3b** Interbedded light green to black chert, phyllite, dark grey calcareous sandstone and dark grey quartzite
 - 3a** Carbonaceous, siliceous black argillite, minor light grey bedded barite, minor light grey to buff siliceous exhalite
 - 2b** Grey, massive to laminated sandstone, fine to coarse grained conglomerate, minor grey to black sand-banded argillite
 - 2a** Dark grey to black sand-banded argillite, massive carbonaceous siliceous black argillite, minor light grey bedded to nodular barite and light grey to buff siliceous exhalite
 - 1b** Grey massive to laminated sandstone, fine to coarse grained conglomerate, minor grey to black sand-banded argillite
 - 1a** Carbonaceous siliceous black argillite, minor light grey to buff siliceous exhalite
- MIDDLE DEVONIAN**
- MC DAME FORMATION**
- MB** Felsic grey dolomite, dolomitic limestone, fossiliferous limestone
 - MG** White coarse grained metagranite

REGIONAL RESOURCES LTD.
 AMAX MINERALS EXPLORATION
 MIDWAY PROPERTY
GEOLOGY
 MAP # 4

LIARD MINING DIVISION, B.C.
 NTS 104 0

1:10,000
 SCALE IN METRES

BY
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 1418 - 355 BURNARD STREET
 VANCOUVER, B.C. V6C 2S6

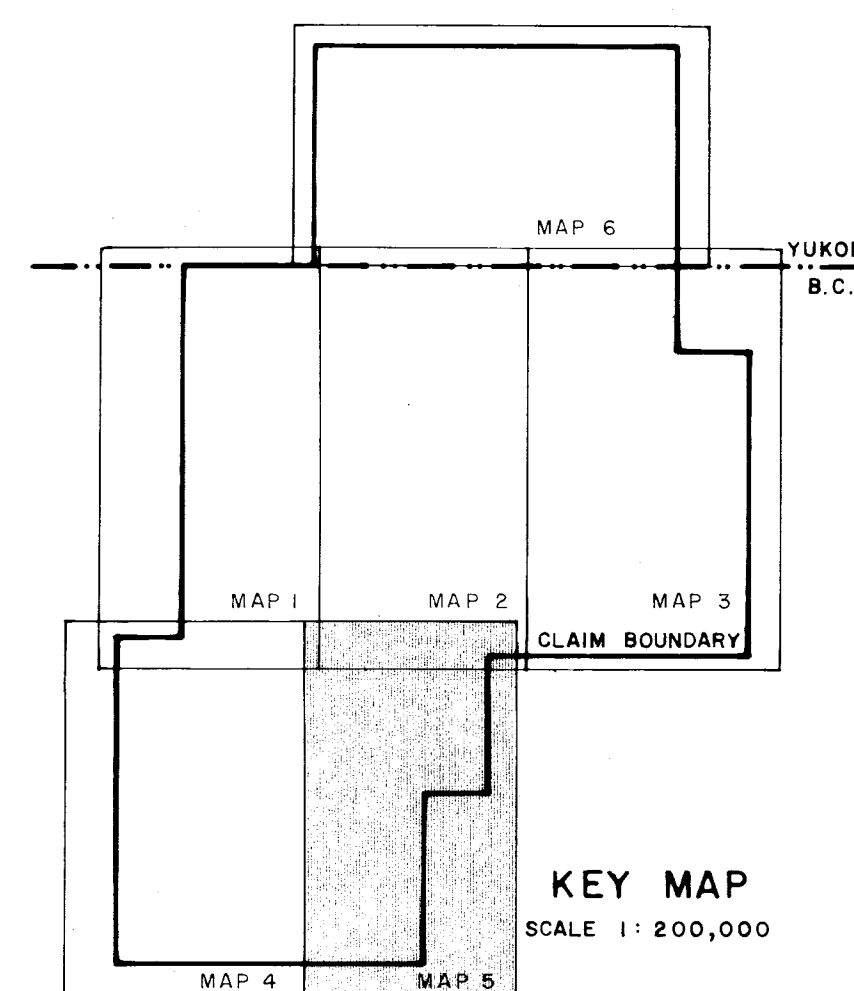
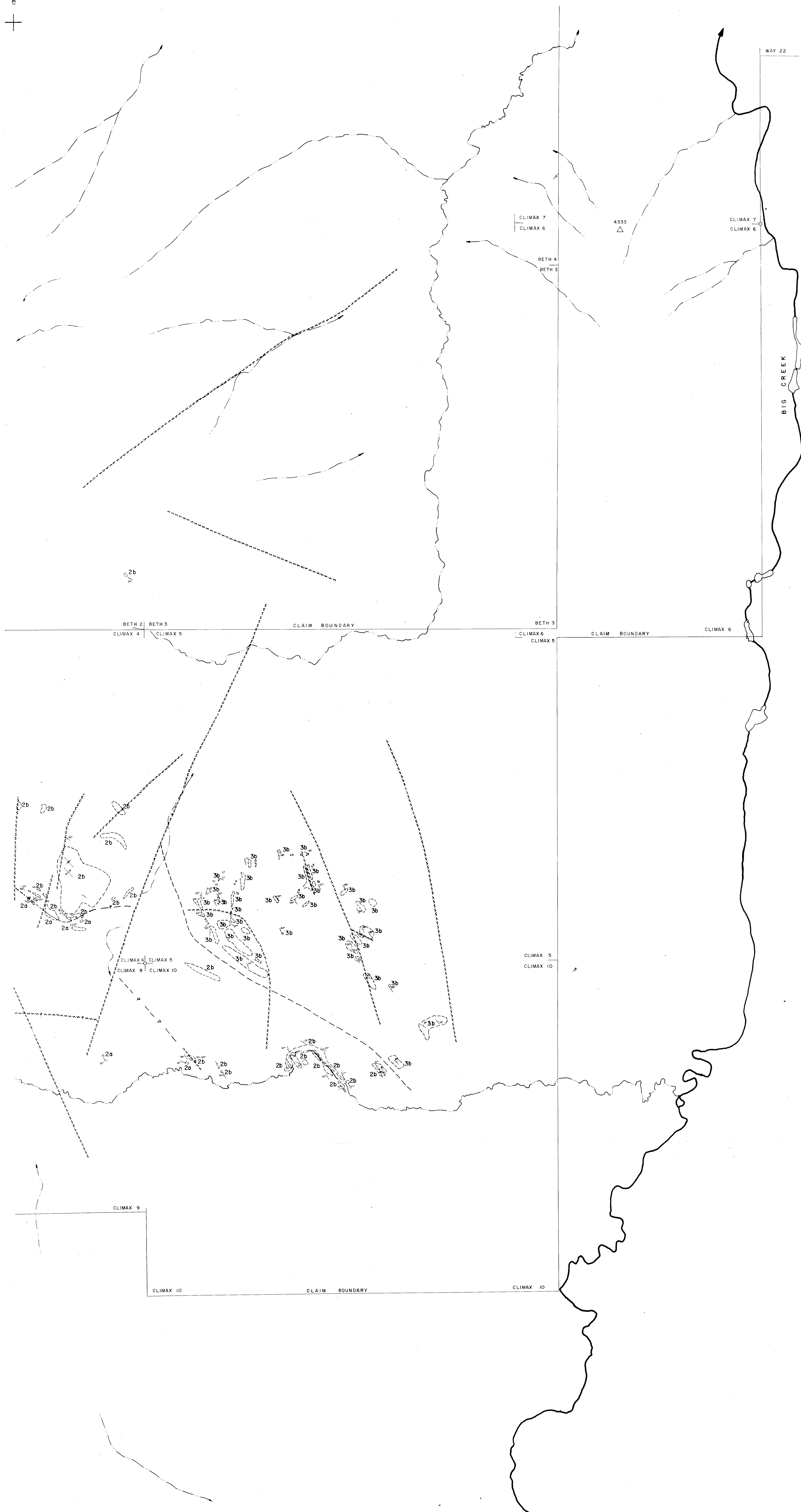
[Signature]

MINERAL RESOURCES BRANCH
 ASSIGNMENT REPORT
9912
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 Part 2 of 7

59° 49' 30" 130° 24'

59° 49' 30" 130° 19'

59°55' 130° 15'



EXPLANATION

- Barite / exhalite horizon
- Outcrop
- Geological contact
- Fault
- Bedding attitude [normal, overturned]
- Anticline
- Syncline
- Foliation
- WAY 2 WAY 3 Claim corner post O Legal corner post location
(claim plotted from 1:50,000 claim map and local surveys)
- 4333 Prospector's rock sample site

LEGEND

UPPER DEVONIAN

UPPER SYLVESTER FORMATION

4 Mafic, felsic volcanics, coarse grained melanocratic sills, minor pyroxenite

LOWER SYLVESTER FORMATION

3b Interbedded light green to black chert, phyllite, dark grey calcareous sandstone and dark grey quartzite

3a Carbonaceous, siliceous black argillite, minor light grey bedded barite, minor light grey to buff siliceous exhalite

2b Grey, massive to laminated sandstone, fine to coarse grained conglomerate, minor grey to black sand-banded argillite

2a Dark grey to black sand-banded argillite, massive carbonaceous siliceous black argillite, minor light grey bedded to nodular barite and light grey to buff siliceous exhalite

1b Grey, massive to laminated sandstone, fine to coarse grained conglomerate, minor grey to black sand-banded argillite

1a Carbonaceous siliceous black argillite, minor light grey to buff siliceous exhalite

MIDDLE DEVONIAN

Mc DAME FORMATION

Mb Fossiliferous dolomite, dolomitic limestone, fossiliferous limestone

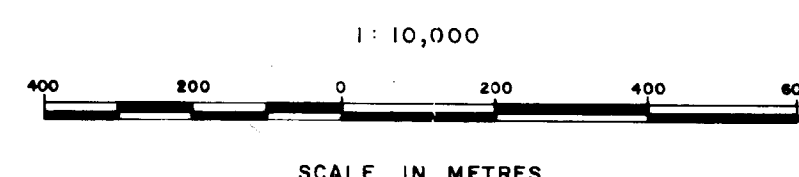
Ma White coarse grained metaquartzite

REGIONAL RESOURCES LTD.
AMAX MINERALS EXPLORATION

MIDWAY PROPERTY

GEOLOGY
MAP # 5

LIARD MINING DIVISION, B.C.
NTS 104 0



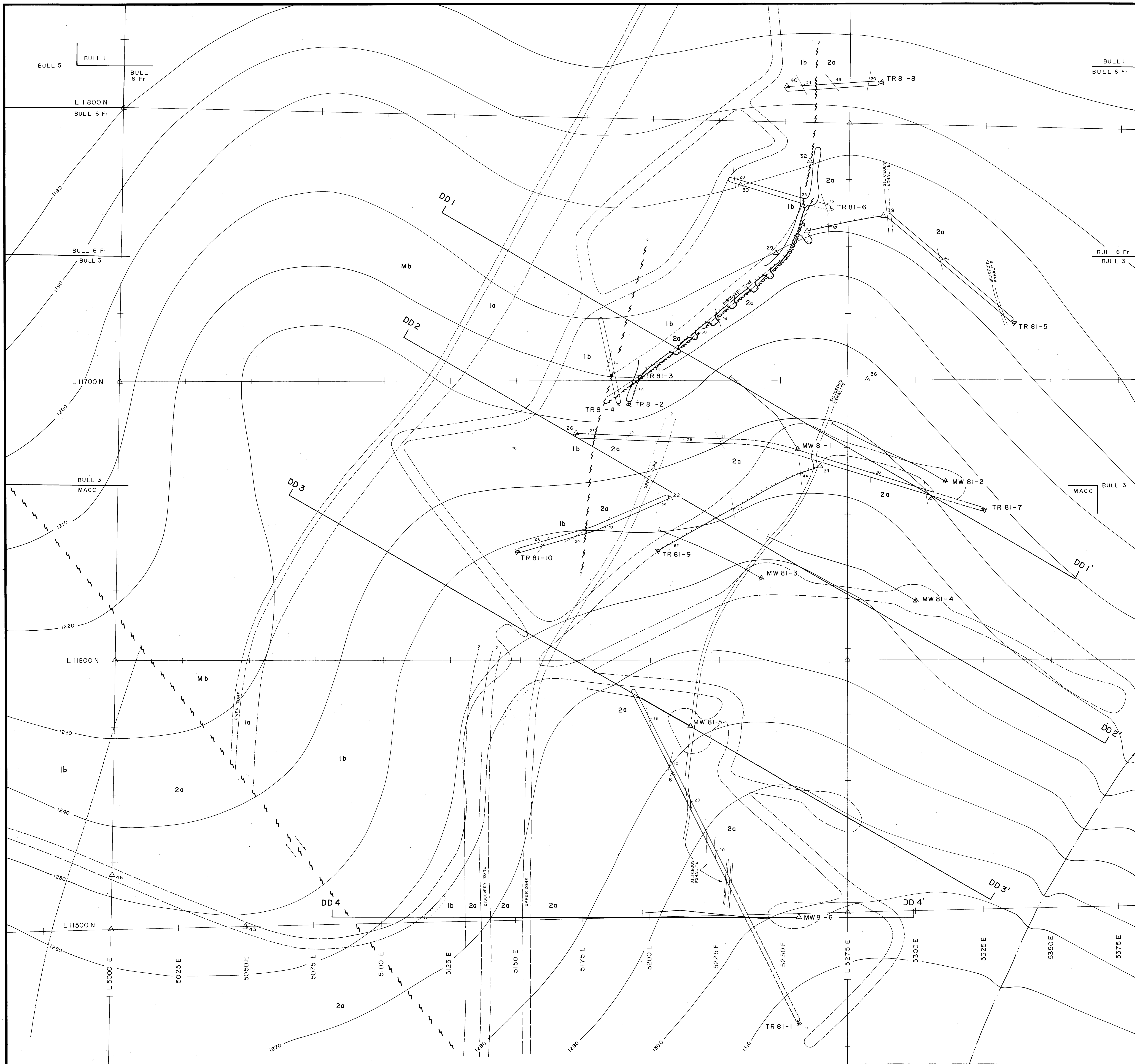
BY
CORDILLERAN ENGINEERING
418-355 BURNARD STREET
VANCOUVER, B.C. V6C 2S8

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MINERAL RESOURCES LTD.
ASSESSMENT REPORT
9912
NOV 1981
2

59°49'30" 130° 15'

59°49'30" 130° 15'



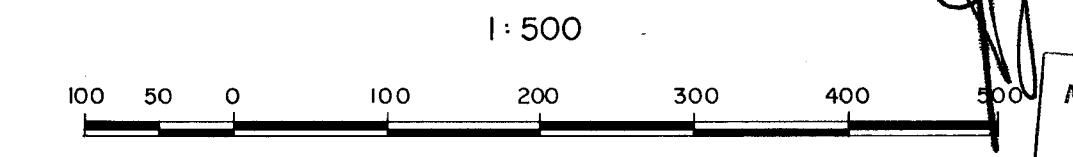
LEGEND

- UPPER DEVONIAN**
- UPPER SYLVESTER FORMATION**
- 4 Mafic, felsic volcanics, coarse grained metabasite silt, minor pyroxenite
- LOWER SYLVESTER FORMATION**
- 3b Interbedded light green to black chert, phyllite, dark grey calcareous sandstone and dark grey quartzite
- 3a Carbonaceous, siliceous black argillite, minor light grey bedded barite, minor light grey to buff siliceous exhalite
- 2b Grey, massive to laminated sandstone, fine to coarse grained conglomerate, minor grey to black sand-banded argillite
- 2a Dark grey to black sand-banded argillite, massive carbonaceous siliceous black argillite, laminated calcareous sandstone and argillite
- SILICEOUS EXHALITE**
- Laminated to massive fine grained silica (30-100 wt %) with possible pyrite, sphalerite, galena and/or barite
- UPPER ZONE and DISCOVERY ZONE**
- Laminated to massive, fine to coarse grained pyrite, sphalerite and galena (30-100 wt %) in silica matrix. Local strong clay alteration.
- 1b Grey massive to laminated sandstone, fine to coarse grained conglomerate, minor grey to black sand-banded argillite
- 1a Carbonaceous, siliceous black argillite, locally graphitic
- LOWER ZONE**
- Sulfide breccia composed of fragments of massive pyrite, sphalerite and galena with local fragments of argillite and limestone. May grade laterally into siliceous exhalite.
- MIDDLE DEVONIAN**
- MEDAME FORMATION**
- Mb Felted grey dolomite, dolomitic limestone, fossiliferous limestone
- Ma White coarse grained metaquartzite
- OUTCROP
- GEOLOGICAL CONTACT defined, approximate, assumed
- FAULT defined, approximate, assumed
- BEDDING ATTITUDE
- DIAMOND DRILL SECTION LINE
- TOPOGRAPHIC CONTOUR IN METERS A.S.L.
- INTERMITTENT STREAM
- ROAD
- CUT GRIDLINE WITH 25m STATIONS
- CLAIM CORNER OR BOUNDARY
- BACKFILLED ZERO POINT
- TRENCH LOCATION
- VERTICAL FACE
- DIAMOND DRILL HOLE COLLAR AND SURFACE PROJECTION
- SURVEYED LOCATION

NOTES TOPOGRAPHY INTERPRETED FROM ALTIMETER READINGS TAKEN AT GRID STATIONS AND ELEVATIONS MEASURED AT SURVEYED LOCATIONS

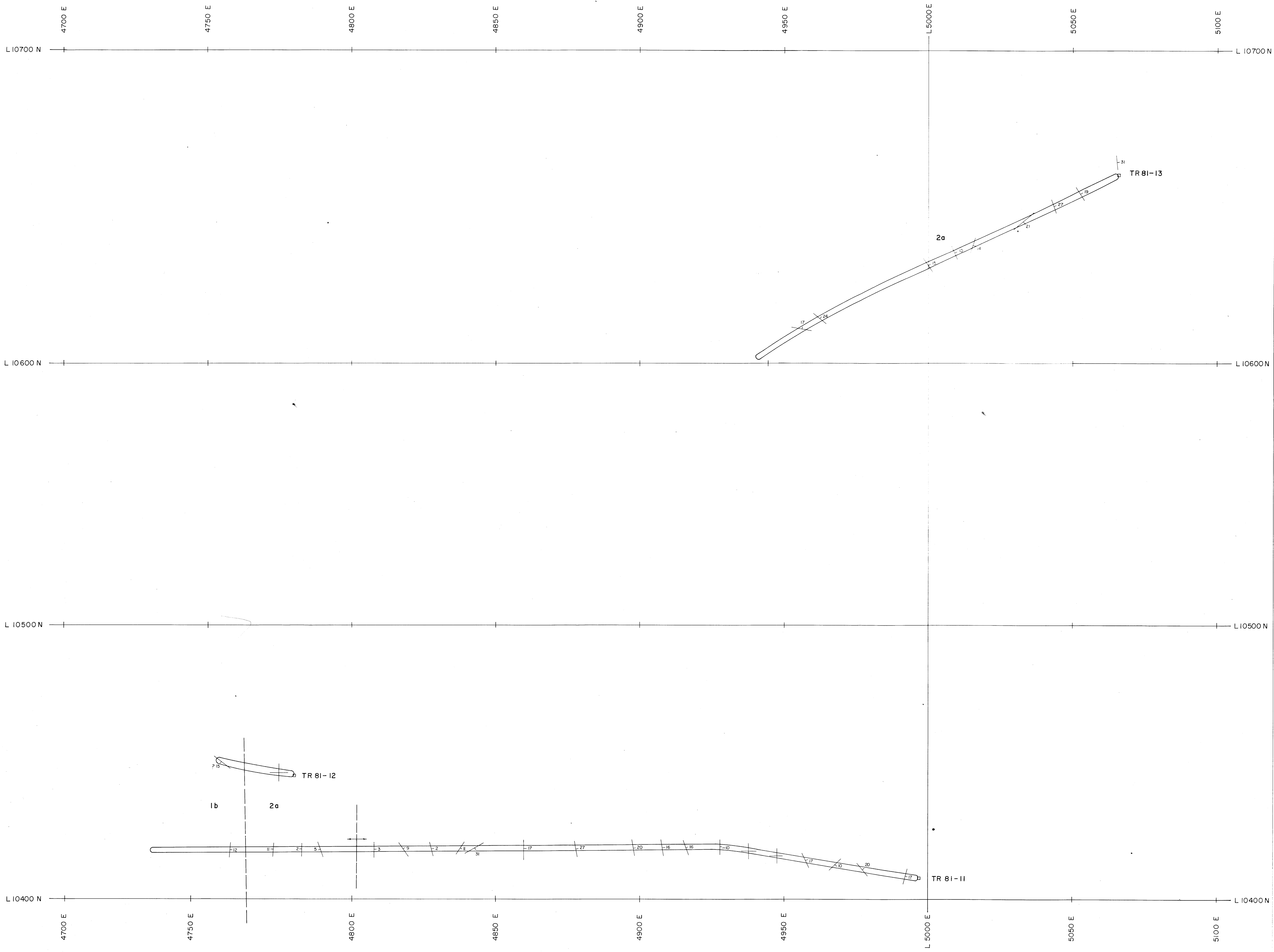
REGIONAL RESOURCES LTD.
 AMAX MINERALS EXPLORATION
 MIDWAY PROPERTY
DISCOVERY AREA GEOLOGY

LIARD MINING DIVISION, B.C.
 WATSON LAKE MINING DISTRICT, Y.T.
 N.T.S. 104-0-16, 105-B-1



SCALE IN METERS
 CONTOUR INTERVAL 10 METERS
 BY
 CORDILLERAN ENGINEERING
 1418 - 355 BURRARD STREET
 VANCOUVER, B.C. V6C 2B8

MINERAL RESOURCES BRANCH
 ASSESSMENT REPORT
9912
 NO. 2 of 7



LEGEND

- UPPER DEVONIAN**
- UPPER SYLVESTER FORMATION**
- 4 Mafic, felsic volcanics, coarse grained metadiorite sills, minor pyroxenite
- LOWER SYLVESTER FORMATION**
- 3b Interbedded light green to black chert, phyllite, dark grey calcareous sandstone and dark grey quartzite
- 3a Carbonaceous, siliceous black argillite, minor light grey bedded barite, minor light grey to buff siliceous exhalite
- 2b Grey, massive to laminated sandstone, fine to coarse grained conglomerate, minor grey to black sand-banded argillite
- 2a Dark grey to black sand-banded argillite, massive carbonaceous siliceous black argillite, laminated calcareous sandstone and argillite
- SILICEOUS EXHALITE:**
Laminated to massive fine grained silica (30-100 wt %) with possible pyrite, sphalerite, galena and/or barite
- UPPER ZONE and DISCOVERY ZONE:**
Laminated to massive, fine to coarse grained pyrite, sphalerite and galena (30-100 wt %) in silica matrix. Local strong clay alteration
- 1b Grey massive to laminated sandstone, fine to coarse grained conglomerate, minor grey to black sand-banded argillite
- 1a Carbonaceous siliceous black argillite, locally graphitic
- LOWER ZONE:**
Sulfide breccia composed of fragments of massive pyrite, sphalerite and galena with local fragments of argillite and limestone. May grade laterally into siliceous exhalite.
- MIDDLE DEVONIAN**
- Mc DAME FORMATION**
- Mb Faded grey dolomite, dolomitic limestone, fossiliferous limestone
- Ma White coarse grained metagranite
- OUTCROP
- GEOLOGICAL CONTACT defined, approximate, assumed
- FAULT defined, approximate, assumed
- BEDDING ATTITUDE
- DIAMOND DRILL SECTION LINE
- TOPOGRAPHIC CONTOUR IN METERS A S L
- INTERMITTENT STREAM
- ROAD
- CUT GRIDLINE WITH 50m STATIONS
- CLAIM CORNER OR BOUNDARY
- BACKFILLED ZERO POINT TRENCH LOCATION TR 81-4
- VERTICAL FACE
- DIAMOND DRILL HOLE COLLAR AND SURFACE PROJECTION MW81-3
- SURVEYED LOCATION 36

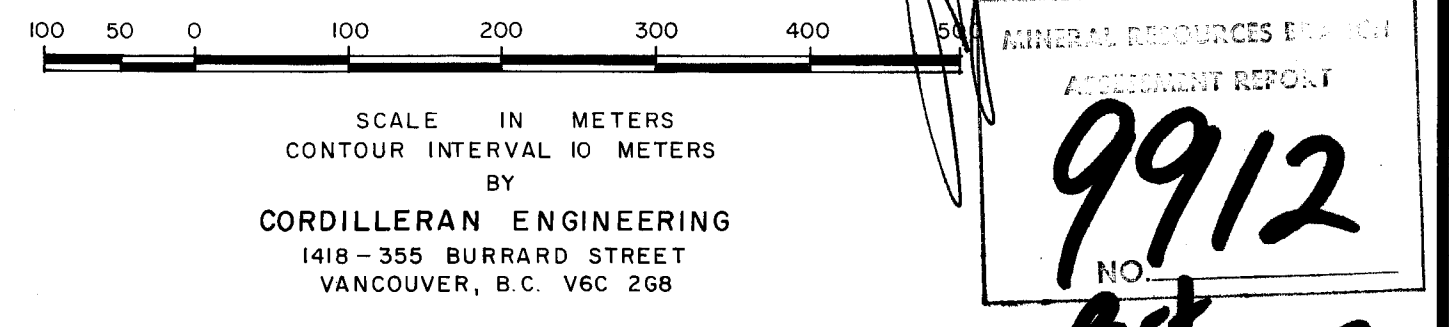
NOTES: TOPOGRAPHY INTERPRETED FROM ALTIMETER READINGS TAKEN AT GRID STATIONS AND ELEVATIONS MEASURED AT SURVEYED LOCATIONS

REGIONAL RESOURCES LTD.
AMAX MINERALS EXPLORATION
MIDWAY PROPERTY

SILVERTIP HILL TRENCH GEOLOGY

LIARD MINING DIVISION, B.C.
WATSON LAKE MINING DISTRICT, Y.T.
N.T.S. 104-0-16, 105-B-1

1:500



NOVEMBER 1981

PLATE 8

9912
NO. 287

LEGEND

- ARGILLITES**
- A-1 massive, generally carbonaceous.
 - A-1-a massive, with occasional laminations of sandstone and/or siltstone (<5 vol %).
 - A-1-b massive, with local bands of ripple cross-laminated sandstone, (<5 vol %).
 - A-2 finely-laminated, with thin, faint, parallel laminations of sandstone and/or fine sandstone.
 - A-2-a same as A-2, plus <5 vol % of parallel laminated sandstone interbeds.
 - A-2-b same as A-2, plus <5 vol % of parallel laminated sandstone interbeds.
 - A-2-c same as A-2, plus <5 vol % of ripple cross-laminated sandstone interbeds.
 - A-3 same as any of the above rock types, plus <5 vol % of ripple cross-laminated sandstone bands.
 - A-2-d interbedded light grey to green phyllite and grey, green, or black chert.

- SILTSTONE**
- SILT grain-size ranging from 0.01 to 0.1 millimeters, mainly massive, moderately to poorly sorted, locally carbonaceous.

- SANDSTONES**
- SS-1 massive, uniform texture.
 - SS-2 parallel laminated, well sorted.
 - SS-3 ripple cross-laminated, fine to medium grained, well sorted.
 - SS-4 graded, massive or parallel laminated sandstone.
 - CSS-1 to CSS-4 weakly to strongly calcareous equivalents of sandstone lithologies.

- CONGLOMERATES**
- C-1 massive, containing <3 vol % of argillite clasts.
 - C-2 massive, containing 3-10 vol % of argillite clasts.
 - C-3 massive, containing >10 vol % of argillite clasts.

- BRECCIAS (EXCEPT B-1 PATTERN)**
- B-1 argillitic matrix with fragments of argillites.
 - B-2 argillitic matrix with a variety of fragment types.
 - B-3 sand to pebble size matrix containing larger fragments of argillites.
 - B-4 sand to pebble size matrix containing larger fragments of assorted rock types.
 - B-5 matrix of B-1, B-2, B-3, or B-4 containing conspicuously larger fragments of argillites.
 - B-6 matrix of B-1, B-2, B-3, or B-4 containing conspicuously larger fragments of assorted rock types.

- CARBONATE** light to medium grey fetid limestone, dolomitic limestone, and dolomite. Locally stylolitic and brecciated.

- QUARTZITE** white, coarse grained, well sorted quartzite. Polygonal grain boundaries.

THE GRAIN SIZE RANGE FOR SANDSTONES:

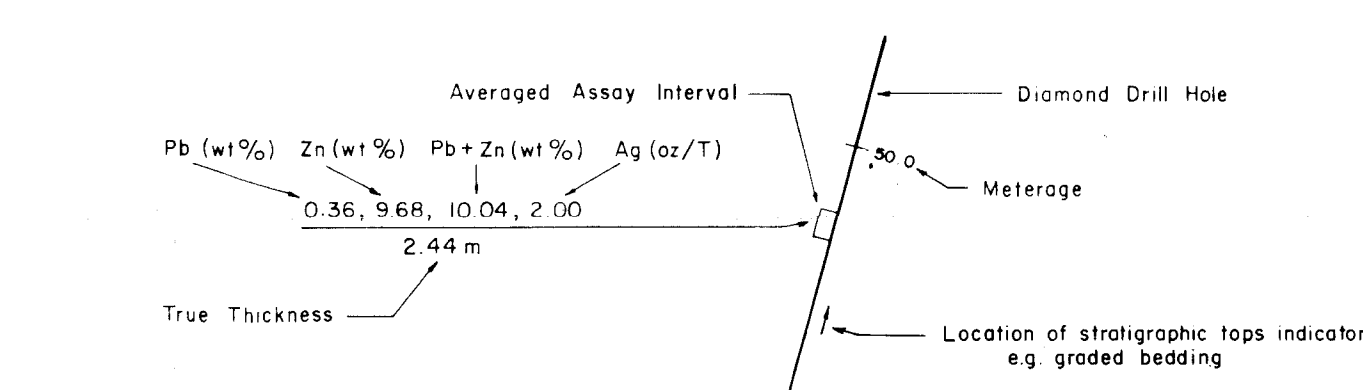
- f $\frac{1}{16}$ to $\frac{1}{8}$ millimeter in diameter
- m $\frac{1}{8}$ to $\frac{1}{4}$ millimeter in diameter
- c $\frac{1}{4}$ to 2 millimeters in diameter

THE FRAGMENT SIZE RANGE FOR CONGLOMERATES AND BRECCIAS

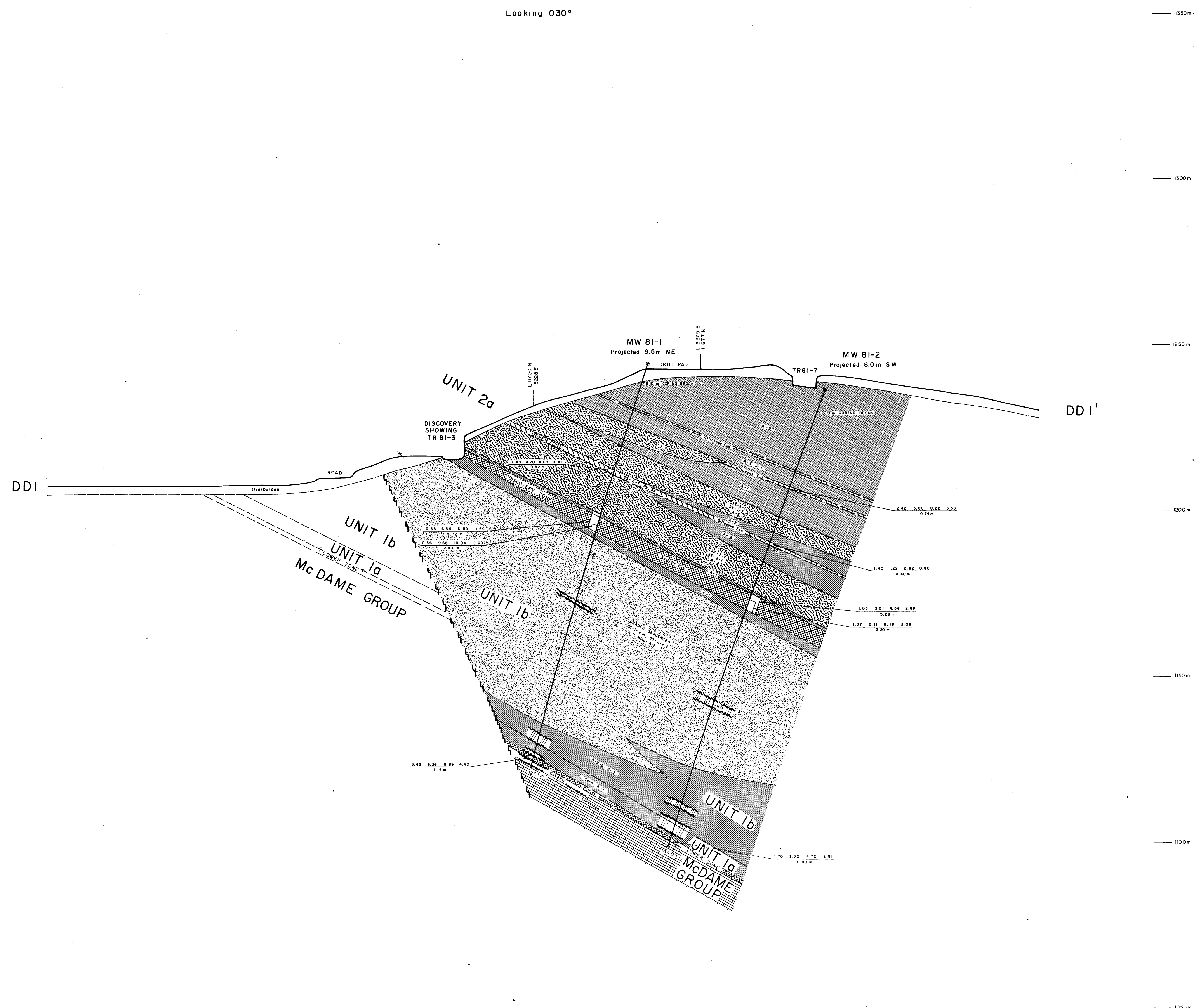
- S 2 to 8 millimeters in diameter
- M 8 to 16 millimeters in diameter
- L 16 to 64 millimeters in diameter
- E > 64 millimeters in diameter
- (Ec 64 to 240 millimeters)
- (Eb > 240 millimeters)

Pb - Zn - Si - Ba EXHALITES

- SULFIDIC EXHALITE pyrite, sphalerite or galena > 50 wt %, with abundant silica (up to 50 wt %) and possible barite (< 20 wt %).
- BARITIC EXHALITE barite 20-100 wt %, with abundant silica (up to 80 wt %), and may contain pyrite, sphalerite, and galena.
- SILICEOUS EXHALITE silica 30-100 wt %, with possible pyrite, sphalerite, and galena (up to 50 wt %), and/or barite (up to 20 wt %). Frequently sericitic.
- CALCAREOUS EXHALITE calcite 30-100 wt %, with possible pyrite, sphalerite, and galena (up to 50 wt %), and/or barite (up to 20 wt %), and/or silica (up to 30 wt %).



- GEOLOGICAL BOUNDARY: defined, approximate, assumed
- FAULT LOCATION: defined, approximate, assumed
- FAULT ZONE: defined, approximate, assumed



REGIONAL RESOURCES LTD.
 AMAX MINERALS EXPLORATION
 MIDWAY PROPERTY
 DIAMOND DRILL SECTION DD1 - DD1'

MINERAL RESOURCES BRANCH
 NO. 9912
 Part 2 of 7

LIARD MINING DIVISION, B.C.
 WATSON LAKE MINING DISTRICT, Y.
 N.T.S. 104-0-16, 105-B-1
 1:500

HORIZONTAL AND VERTICAL SCALE IN METERS

BY
 CORDILLERAN ENGINEERING
 1418-335 BURNARD STREET
 VANCOUVER, B.C. V6C 2G8

LEGEND

- ARGILLITES**
- A-1 massive, generally carbonaceous
 - A-1-a massive, with occasional laminations of sandstone and/or siltstone (<5 vol %)
 - A-1-b massive, with local bands of ripple cross-laminated sandstone, (<5 vol %)
 - A-2 finely-laminated, with thin, faint parallel laminations of siltstone and/or fine sandstone
 - A-2-a same as A-2, plus >5 vol % of parallel laminated sandstone interbeds
 - A-2-b same as A-2, plus >5 vol % of parallel laminated sandstone interbeds
 - A-2-c same as A-2, plus >5 vol % of ripple cross-laminated sandstone bands
 - A-3 some of any of the above rock types, plus >5 vol % of ripple cross-laminated sandstone bands
 - A-2-d interbedded light grey to green phyllite and grey, green, or black chert.

- SILTSTONE**
- SILT grain-size ranging from 0.01 to 0.1 millimeters, mostly massive, moderately to poorly sorted, locally carbonaceous.

- SANDSTONES**
- SS-1 massive, uniform texture
 - SS-2 parallel laminated, well sorted
 - SS-3 ripple cross-laminated, fine to medium grained, well sorted
 - SS-4 graded, massive or parallel laminated sandstone.
 - CSS-1 to CSS-4 weakly to strongly calcareous equivalents of sandstone lithologies

- CONGLOMERATES**
- C-1 massive, containing <3 vol % of argillite clasts
 - C-2 massive, containing 3-10 vol % of argillite clasts
 - C-3 massive, containing >10 vol % of argillite clasts

- BRECCIAS**
(EXCEPT B-1 PATTERN)
- B-1 argillite matrix with fragments of argillites
 - B-2 argillite matrix with a variety of fragment types
 - B-3 sand to pebble size matrix containing larger fragments of argillites
 - B-4 sand to pebble size matrix containing larger fragments of assorted rock types
 - B-5 matrix of B-1, B-2, B-3, or B-4 containing conspicuously larger fragments of argillites
 - B-6 matrix of B-1, B-2, B-3, or B-4 containing conspicuously larger fragments of assorted rock types

- CARBONATE** light to medium grey field limestone, dolomitic limestone, and dolomite. Locally stylolitic and brecciated.

- QUARTZITE** white, coarse grained, well sorted quartzite. Polygonal grain boundaries.

THE GRAIN SIZE RANGE FOR SANDSTONES:

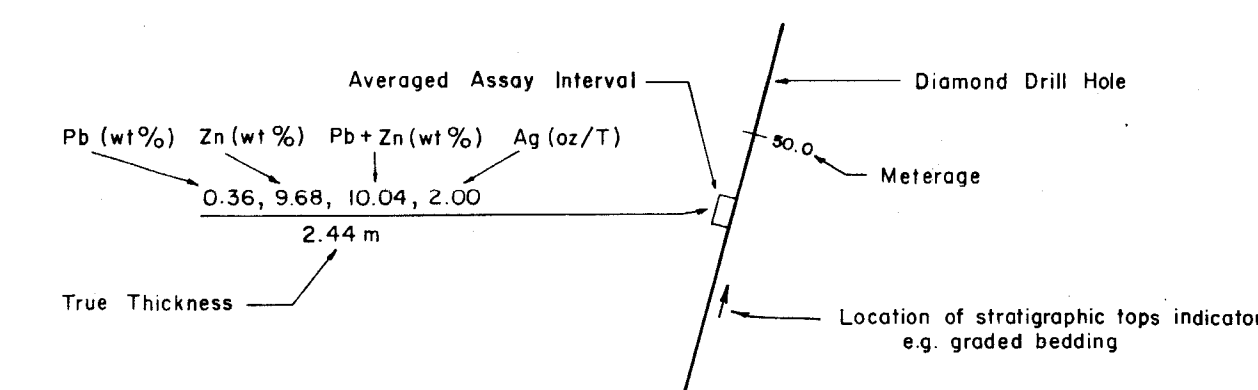
- f 1/16 to 1/8 millimeter in diameter
- m 1/8 to 1/4 millimeter in diameter
- c 1/4 to 2 millimeters in diameter

THE FRAGMENT SIZE RANGE FOR CONGLOMERATES AND BRECCIAS

- S 2 to 8 millimeters in diameter
- M 8 to 16 millimeters in diameter
- L 16 to 64 millimeters in diameter
- E > 64 millimeters in diameter
(E₁ 64 to 240 millimeters)
(E₂ > 240 millimeters)

Pb - Zn - Si - Ba EXHALITES

- SULFIDIC EXHALITE: pyrite, sphalerite and/or galena >50 wt %, with abundant silica (up to 50 wt %) and possible barite (<20 wt %)
- BARITIC EXHALITE: barite 20-100 wt %, with abundant silica (up to 80 wt %), and may contain pyrite, sphalerite, and galena
- SILICEOUS EXHALITE: silica 30-100 wt %, with possible pyrite, sphalerite, and galena (up to 50 wt %), and/or barite (up to 20 wt %). Frequently sericitic.
- CALCAREOUS EXHALITE: calcite 30-100 wt %, with possible pyrite, sphalerite, and galena (up to 50 wt %), and/or barite (up to 20 wt %), and/or silica (up to 30 wt %).



- GEOLOGICAL BOUNDARY: defined, approximate, assumed
- FAULT LOCATION: defined, approximate, assumed
- FAULT ZONE: defined, approximate, assumed

REGIONAL RESOURCES LTD.
AMAX MINERALS EXPLORATION
MIDWAY PROPERTY

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO. 9912
Part 2 & 7

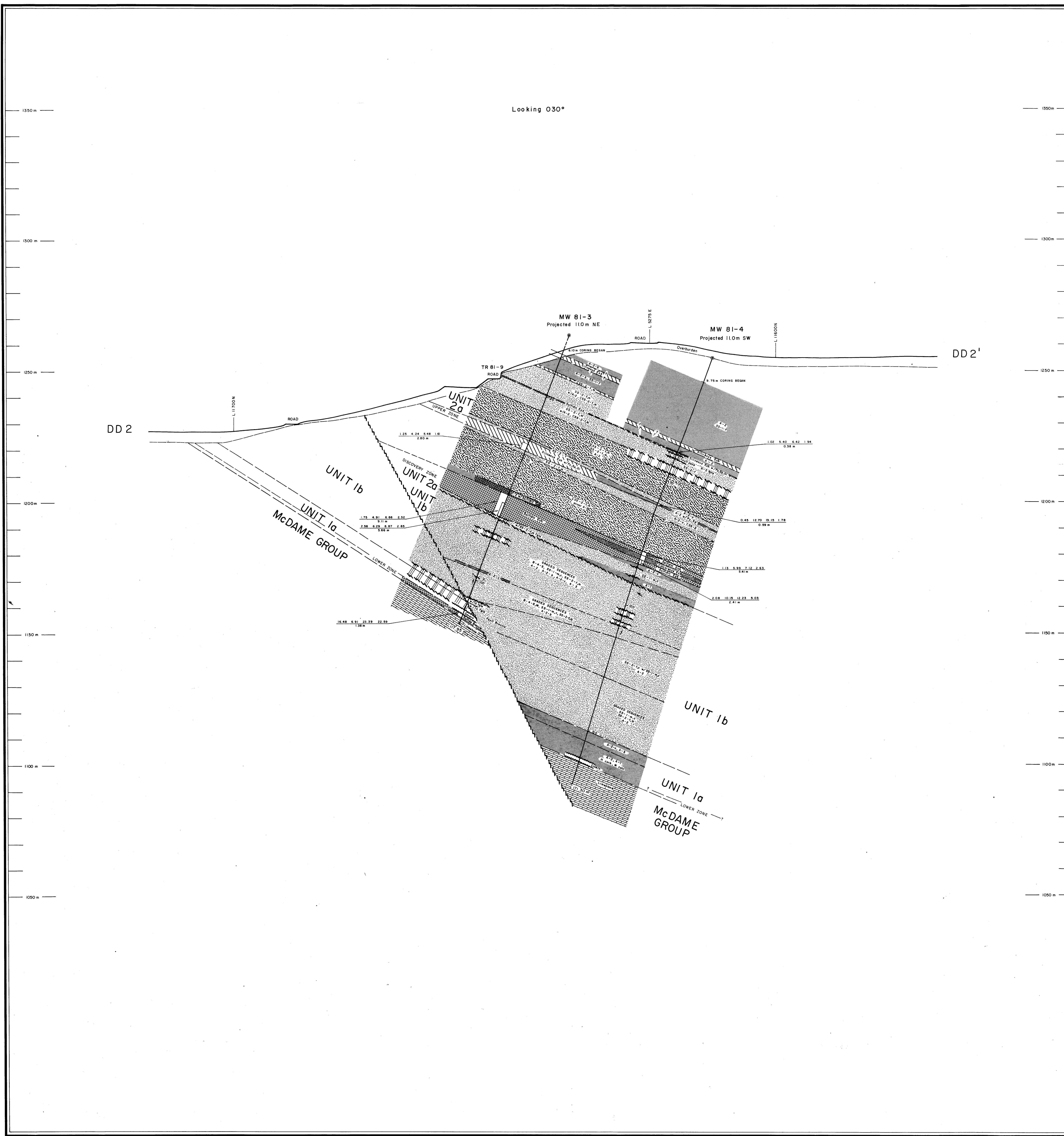
DIAMOND DRILL SECTION DD2 - DD2'

LIARD MINING DIVISION, B.C.
WATSON LAKE MINING DISTRICT, Y.T.
N.T.S. 104-O-16, 105-B-1

1:500

HORIZONTAL AND VERTICAL SCALE IN METERS

BY
CORDILLERAN ENGINEERING
1418-305 BURNARD STREET
VANCOUVER, B.C. V6C 2G8



LEGEND

- ARGILLITES**
 - A-1 massive, generally carbonaceous.
 - A-1-a massive, with occasional laminations of sandstone and/or siltstone (>5 vol %).
 - A-1-b massive, with local bands of ripple cross-laminated sandstone, (>5 vol %).
 - A-2 finely-laminated, with thin, faint, parallel laminations of siltstone and/or fine sandstone.
 - A-2-a same as A-2, plus <5 vol % of parallel laminated sandstone interbeds.
 - A-2-b same as A-2, plus <5 vol % of parallel laminated sandstone interbeds.
 - A-2-c same as A-2, plus <5 vol % of ripple cross-laminated sandstone bands.
 - A-3 some as any of the above rock types, plus <5 vol % of ripple cross-laminated sandstone bands.
 - A-2-d interbedded light grey to green phyllite and grey, green, or black chert.
- SILTSTONE**
 - SILT grain-size ranging from 0.01 to 0.1 millimeters; mainly massive, moderately to poorly sorted, locally carbonaceous.
- SANDSTONES**
 - SS-1 massive, uniform texture.
 - SS-2 parallel-laminated, well sorted.
 - SS-3 ripple cross-laminated, fine to medium grained, well sorted.
 - SS-4 graded, massive or parallel laminated sandstone.
 - CSS-1 to CSS-4 weakly to strongly calcareous equivalents of sandstone lithologies.
- CONGLOMERATES**
 - C-1 massive, containing <3 vol % of argillite clasts.
 - C-2 massive, containing 3-10 vol % of argillite clasts.
 - C-3 massive, containing >10 vol % of argillite clasts.
- BRECCIAS**
(EXCEPT B-1 PATTERNS)
 - B-1 argillite matrix with fragments of argillites.
 - B-2 argillite matrix with a variety of fragment types.
 - B-3 sand to pebble size matrix containing larger fragments of argillites.
 - B-4 sand to pebble size matrix containing larger fragments of assorted rock types.
 - B-5 matrix of B-1, B-2, B-3, or B-4 containing conspicuously larger fragments of argillites.
 - B-6 matrix of B-1, B-2, B-3, or B-4 containing conspicuously larger fragments of assorted rock types.
- CARBONATE** light to medium grey field limestone, dolomitic limestone, and dolomite. Locally stylolitic and brecciated.
- QUARTZITE** white, coarse grained, well sorted quartzite. Polygonal grain boundaries.

THE GRAIN SIZE RANGE FOR SANDSTONES:

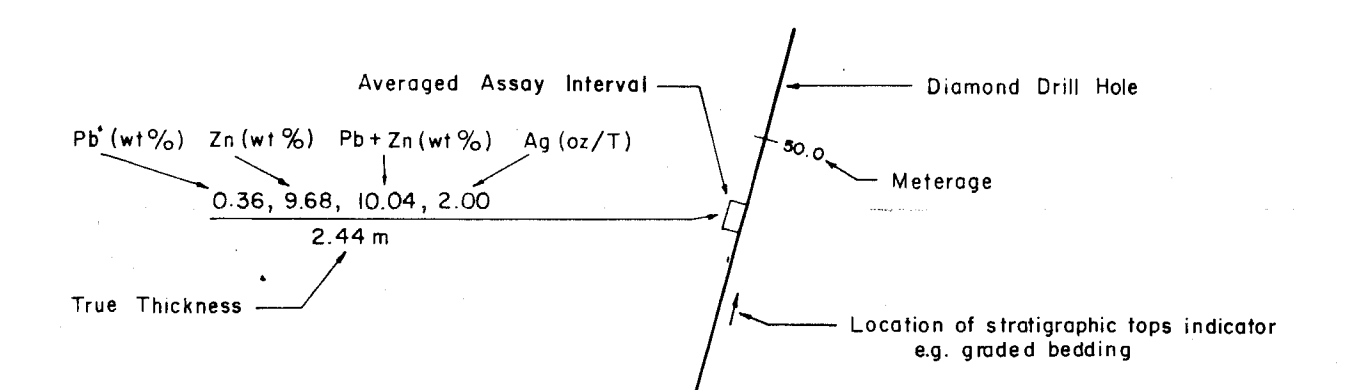
- f = $\frac{1}{16}$ to $\frac{1}{8}$ millimeter in diameter
- m = $\frac{1}{8}$ to $\frac{1}{4}$ millimeter in diameter
- c = $\frac{1}{4}$ to $\frac{1}{2}$ millimeters in diameter

THE FRAGMENT SIZE RANGE FOR CONGLOMERATES AND BRECCIAS

- S = 2 to 8 millimeters in diameter
- M = 8 to 16 millimeters in diameter
- L = 16 to 64 millimeters in diameter
- E = > 64 millimeters in diameter
(E_c = 64 to 240 millimeters)
(E_b = > 240 millimeters)

Pb - Zn - Si - Ba EXHALITES

- SULFIDIC EXHALITE** pyrite, sphalerite + or - galena > 50 wt %, with abundant silica (up to 50 wt %) and possible barite (< 20 wt %).
- BARITIC EXHALITE** barite 20-100 wt %, with abundant silica (up to 80 wt %), and may contain pyrite, sphalerite, and galena.
- SILICEOUS EXHALITE** silica 30-100 wt %, with possible pyrite, sphalerite, and galena (up to 50 wt %), and/or barite (up to 20 wt %). Frequently sericitic.
- CALCAREOUS EXHALITE** calcite 30-100 wt %, with possible pyrite, sphalerite, and galena (up to 50 wt %), and/or barite (up to 20 wt %), and/or silica (up to 30 wt %).



- GEOLOGICAL BOUNDARY: defined, approximate, assumed
- FAULT LOCATION: defined, approximate, assumed
- FAULT ZONE: defined, approximate, assumed

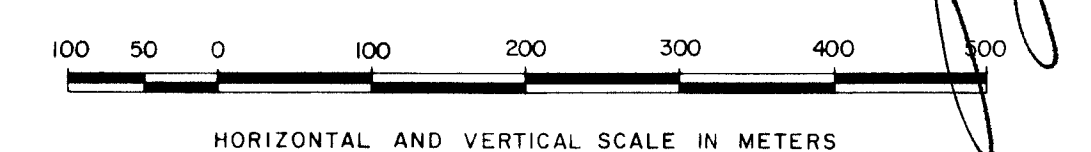
REGIONAL RESOURCES LTD.
AMAX MINERALS EXPLORATION

MINERAL RESOURCES DIVISION
ASSESSMENT REPORT
NO. 9912

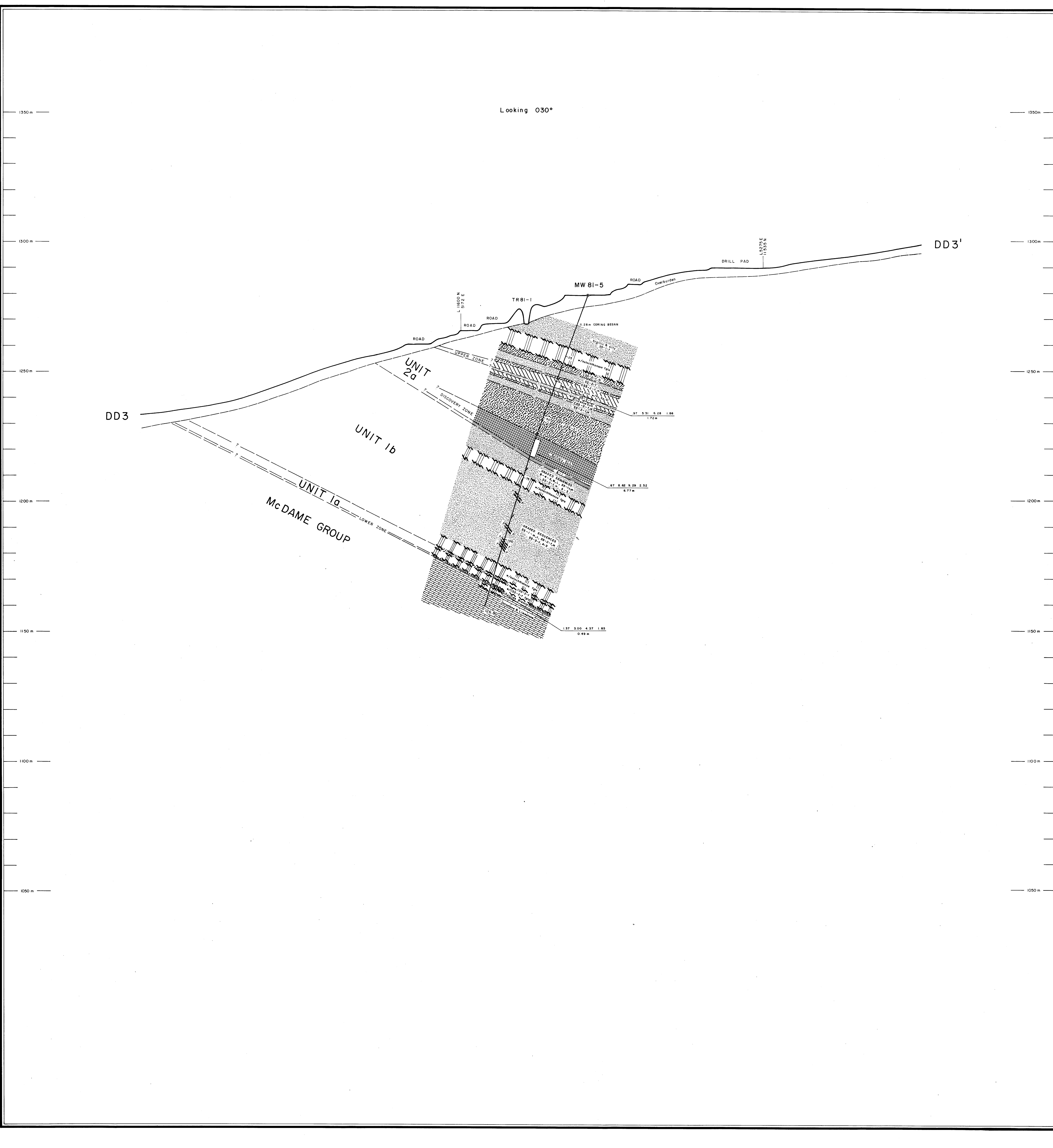
MIDWAY PROPERTY Part 2 of 7
DIAMOND DRILL SECTION DD3-DD3'

LIARD MINING DIVISION, B.C.
WATSON LAKE MINING DISTRICT, Y.T.
N.T.S. 104-0-16, 105-B-1

1:500



BY
CORDILLERAN ENGINEERING
1418-355 BURNARD STREET
VANCOUVER, B.C. V6C 2B8



LEGEND

- ARGILLITES**
- A-1 massive, generally carbonaceous.
 - A-1-a massive, with occasional laminations of sandstone and/or siltstone (<5 vol %).
 - A-1-b massive, with local bands of ripple cross-laminated sandstone, (<5 vol %).
 - A-2 finely laminated, with thin, faint, parallel laminations of siltstone and/or fine sandstone.
 - A-2-a same as A-2, plus <5 vol % of parallel laminated sandstone interbeds.
 - A-2-b same as A-2, plus <3 vol % of parallel laminated sandstone interbeds.
 - A-2-c same as A-2, plus <5 vol % of ripple cross-laminated sandstone bands.
 - A-3 same as any of the above rock types, plus >5 vol % of ripple cross-laminated sandstone bands.
 - A-2-d interbedded light grey to green phyllite and grey, green, or black chert.
- SILTSTONE**
- SILT grain-size ranging from 0.01 to 0.1 millimeters, mainly massive, moderately to poorly sorted, locally carbonaceous.
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 - B-5 matrix of B-1, B-2, B-3, or B-4 containing conspicuously larger fragments of argillites.
 - B-6 matrix of B-1, B-2, B-3, or B-4 containing conspicuously larger fragments of assorted rock types.
- CARBONATE** light to medium grey ferric limestone, dolomitic limestone, and dolomite. Locally stylolitic and brecciated.
- QUARTZITE** white, coarse grained, well sorted quartzite. Polygonal grain boundaries.

THE GRAIN SIZE RANGE FOR SANDSTONES:

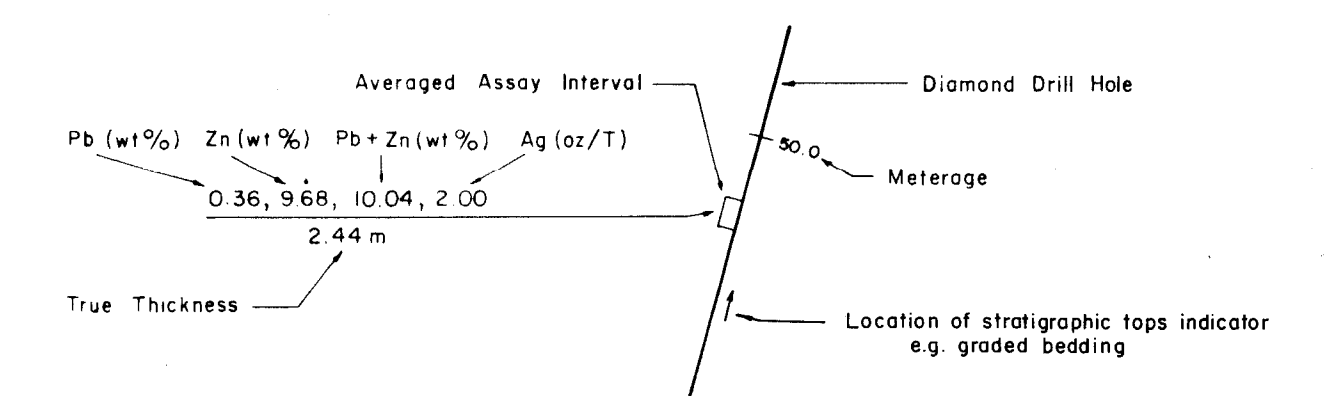
- f = $\frac{1}{16}$ to $\frac{1}{8}$ millimeter in diameter
- m = $\frac{1}{4}$ to $\frac{1}{2}$ millimeter in diameter
- c = $\frac{1}{2}$ to 2 millimeters in diameter

THE FRAGMENT SIZE RANGE FOR CONGLOMERATES AND BRECCIAS

- S = 2 to 8 millimeters in diameter
- M = 8 to 16 millimeters in diameter
- L = 16 to 64 millimeters in diameter
- E = > 64 millimeters in diameter
(E_c 64 to 240 millimeters
E_s > 240 millimeters)

Pb - Zn - Si - Ba EXHALITES

- SULFIDIC EXHALITE** pyrite, sphalerite + or - galena > 50 wt %, with abundant silica (up to 50 wt %) and possible barite (<20 wt %).
- BARITIC EXHALITE** barite 20-100 wt %, with abundant silica (up to 80 wt %), and may contain pyrite, sphalerite, and galena.
- SILICEOUS EXHALITE** silica 30-100 wt %, with possible pyrite, sphalerite, and galena (up to 50 wt %), and/or barite (up to 20 wt %). Frequently sericitic.
- CALCAREOUS EXHALITE** calcite 30-100 wt %, with possible pyrite, sphalerite, and galena (up to 50 wt %), and/or barite (up to 20 wt %), and/or silica (up to 30 wt %).



- GEOLOGICAL BOUNDARY: defined, approximate, assumed
- - - FAULT LOCATION: defined, approximate, assumed
- ||||| FAULT ZONE: defined, approximate, assumed

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
99/12
Part 2 of 7

REGIONAL RESOURCES LTD.
AMAX MINERALS EXPLORATION

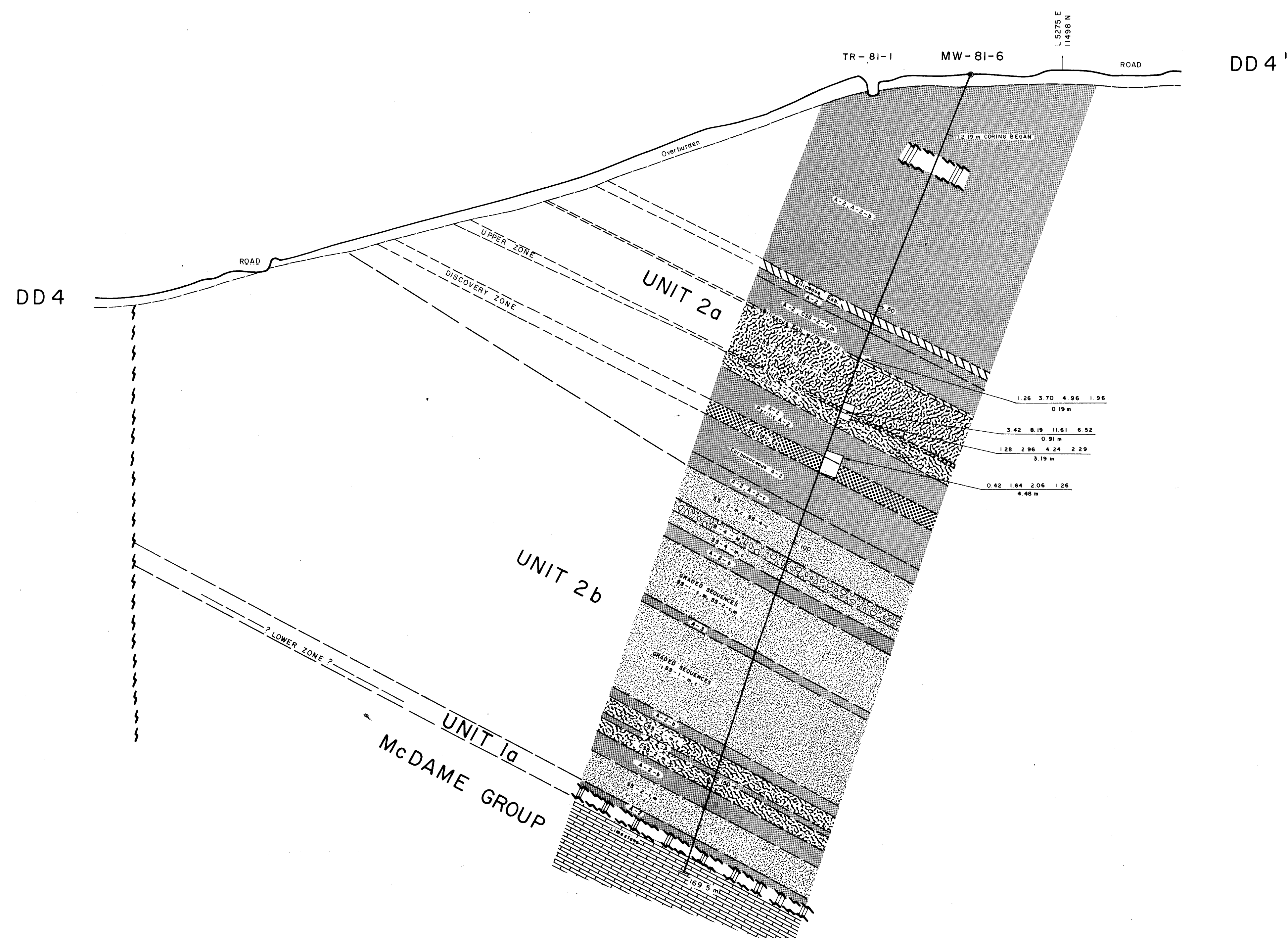
MIDWAY PROPERTY
DIAMOND DRILL SECTION DD4 - DD4'

LIARD MINING DIVISION, B.C.
WATSON LAKE MINING DISTRICT, Y.T.
N.T.S. 104-0-16, 105-B-1

1:500
HORIZONTAL AND VERTICAL SCALE IN METERS

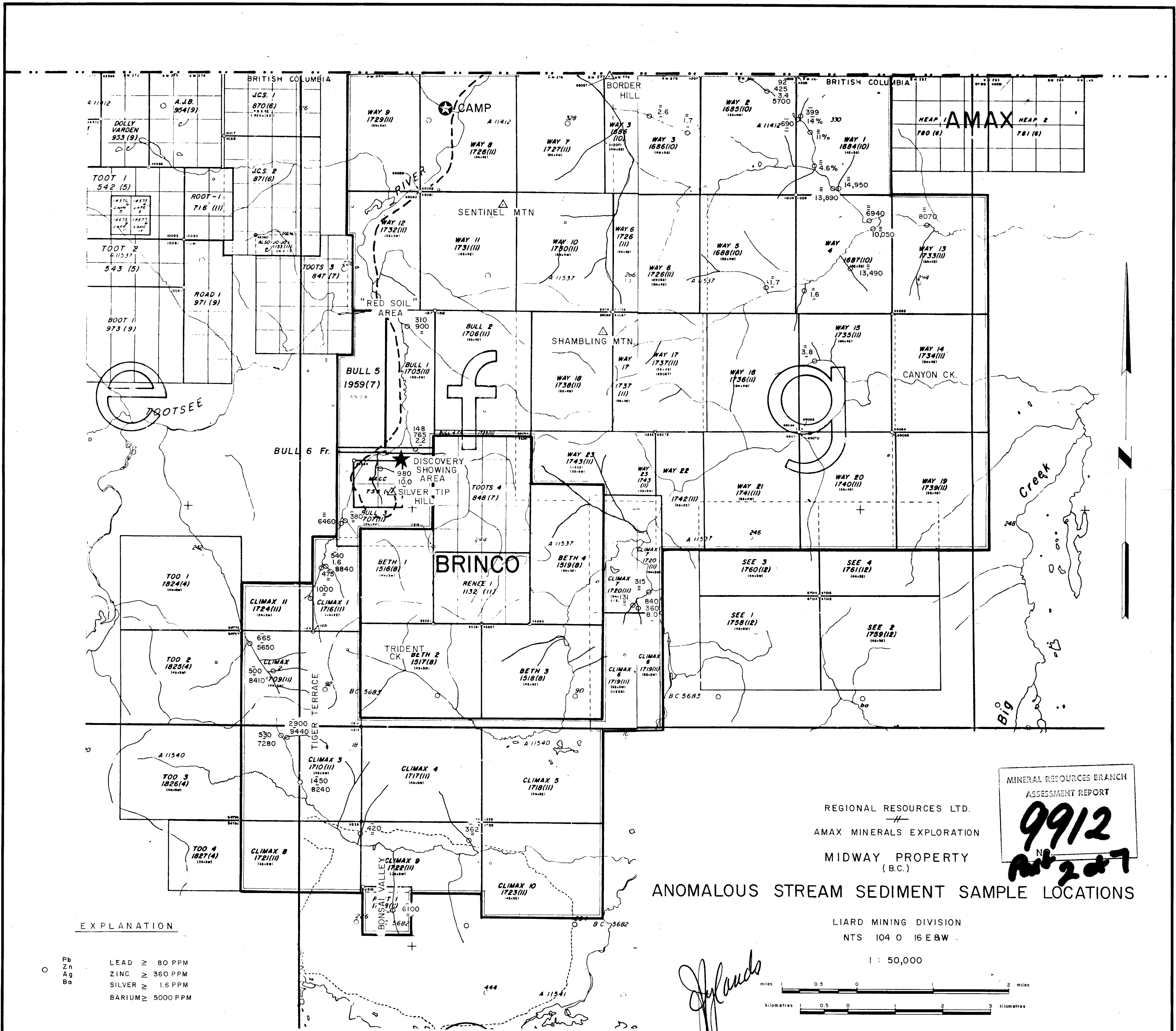
BY
CORDILLERA ENGINEERING
1418 - 355 BURNHAM STREET
VANCOUVER, B.C. V6C 2S8

Section along line 11500 N
Looking 360°



DD4

DD4'



EXPLANATION

Pb	LEAD ≥ 80 PPM
Zn	ZINC ≥ 360 PPM
Ag	SILVER ≥ 1.6 PPM
Ba	BARIIUM ≥ 5000 PPM

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

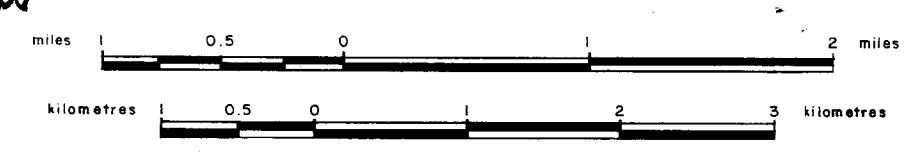
9912
N
Part 2 of 7

REGIONAL RESOURCES LTD.
AMAX MINERALS EXPLORATION
MIDWAY PROPERTY
(B.C.)

ANOMALOUS STREAM SEDIMENT SAMPLE LOCATIONS

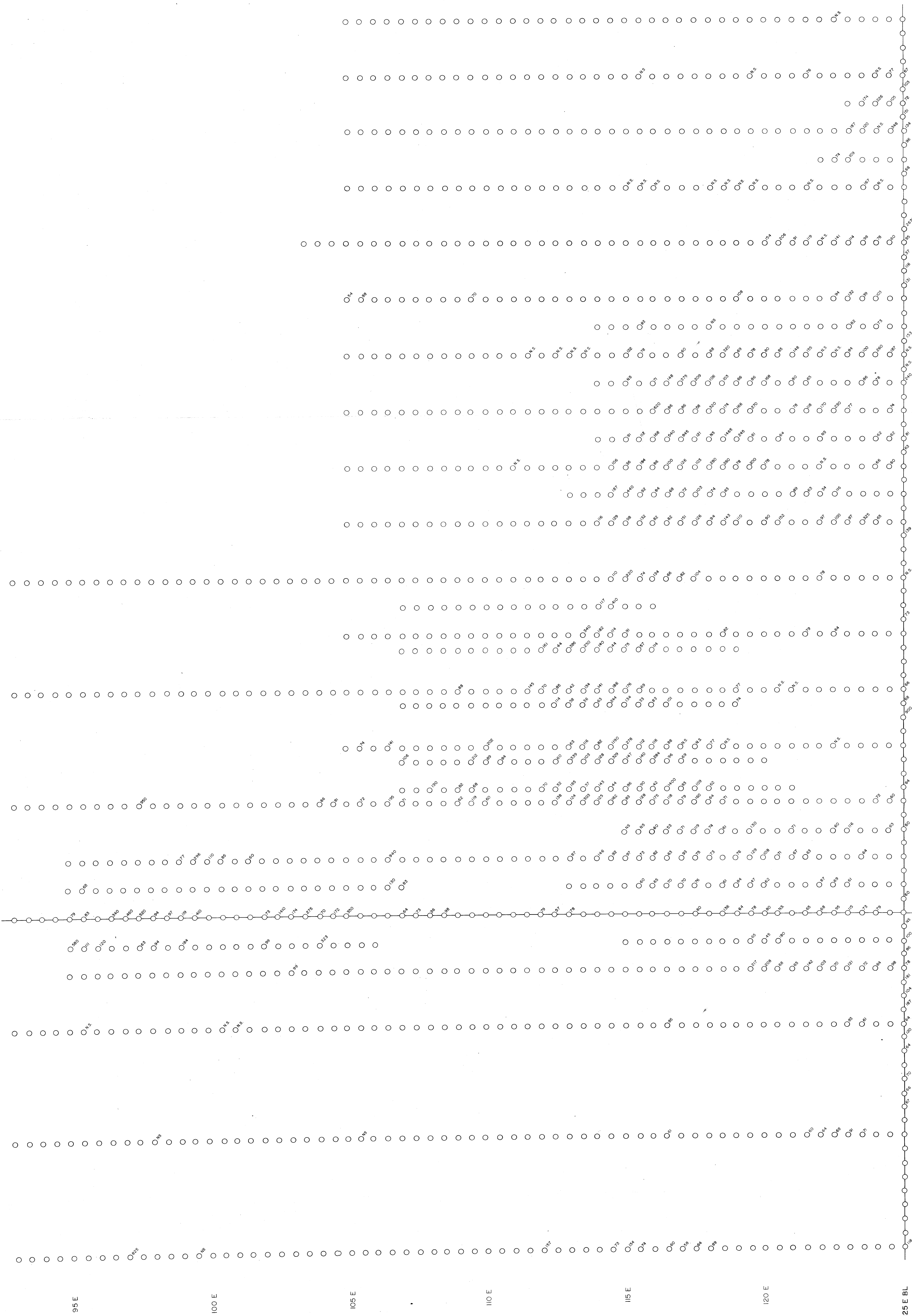
LIARD MINING DIVISION
NTS 104 0 16 E&W

1 : 50,000



J. Hancock

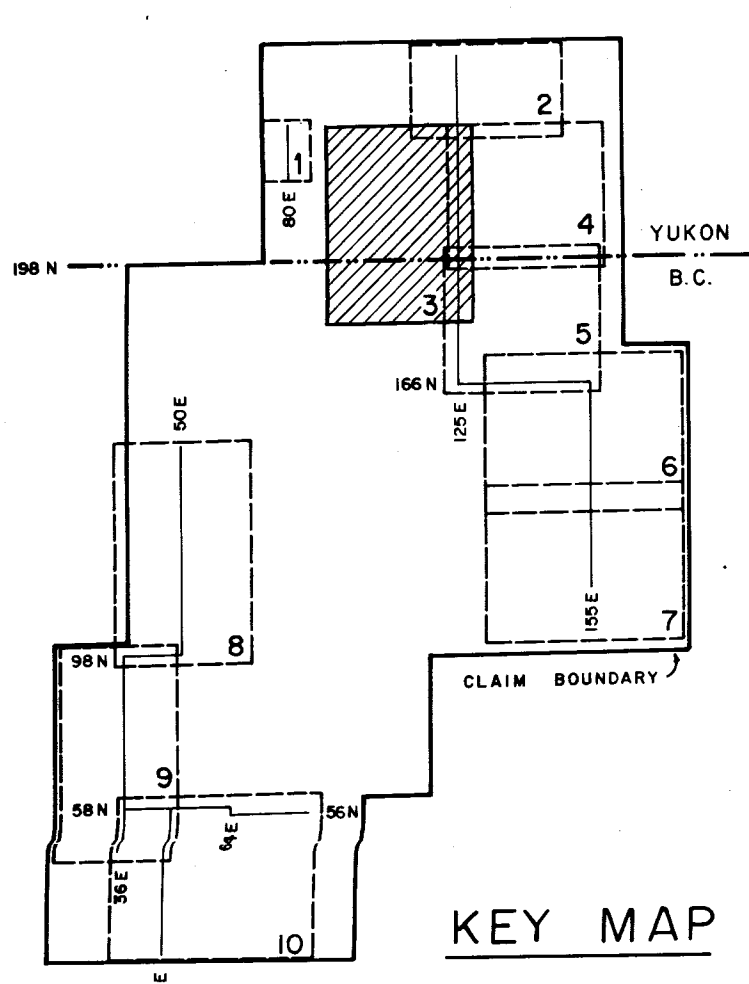
BY
CORDILLERAN ENGINEERING
1418-355 BURNARD STREET
VANCOUVER, B.C. V6C 2G8



230 N
228 N
227 N
226 N
225 N
224 N
222 N
220 N
219 N
218 N
217 N
216 N
215 N
214 N
213 N
212 N
210 N
209 N
208 N
20750 N
206 N
20550 N
204 N
20350 N
20250 N
202 N
201 N
200 N
199 N
198 N B.C.-YUKON BORDER
197 N
196 N
194 N
190 N
186 N

LEGEND

- Pb CONCENTRATION IN PPM**
- BACKGROUND < 60
 - WEAKLY ANOMALOUS 60 - 140
 - MODERATELY ANOMALOUS 141 - 340
 - ANOMALOUS 341 - 830
 - STRONGLY ANOMALOUS > 830
- NOTE: ONLY ABOVE BACKGROUND RESULTS PLOTTED
- SOIL SAMPLE LOCATION AND ELEMENT CONCENTRATION IN PPM
 - NS NO SAMPLE COLLECTED
 - IS INSUFFICIENT SAMPLE
 - ⊕ LEGAL CORNER POSTS AND CLAIM BOUNDARIES



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
9912
NO.
Part 2 of 7

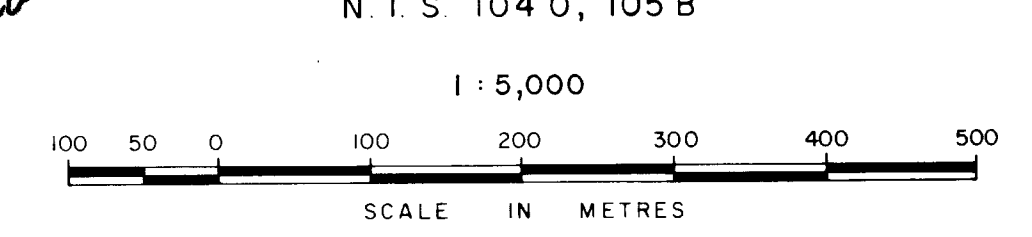
REGIONAL RESOURCES LTD.
AMAX MINERALS EXPLORATION
MIDWAY PROPERTY

SOIL GEOCHEMISTRY - Pb

NORTH GRID KEY # 3

LARD MINING DIVISION, B.C.
WATSON LAKE MINING DISTRICT, Y.T.
N.T.S. 104 O, 105 B

Handwritten signature



BY
CORDILLERAN ENGINEERING
1418 - 355 BURNARD STREET
VANCOUVER, B.C. V6C 2B6



230 N
228 N
227 N
226 N
225 N
224 N
222 N
220 N
219 N
218 N
217 N
216 N
215 N
214 N
213 N
212 N
210 N
209 N
208 N
20750 N
206 N
20550 N
204 N
20350 N
20250 N
202 N
201 N
200 N
199 N
198 N B.C.-YUKON BORDER
197 N
196 N
194 N
190 N
186 N



LEGEND

Zn CONCENTRATION IN PPM

○	BACKGROUND	<250
○	WEAKLY ANOMALOUS	251 - 500
○	MODERATELY ANOMALOUS	501 - 1000
○	ANOMALOUS	1001 - 2000
○	STRONGLY ANOMALOUS	>2000

NOTE: ONLY ABOVE BACKGROUND RESULTS PLOTTED

- SOIL SAMPLE LOCATION AND ELEMENT CONCENTRATION IN PPM
- NS NO SAMPLE COLLECTED
- IS INSUFFICIENT SAMPLE
- ⊕ LEGAL CORNER POSTS AND CLAIM BOUNDARIES

95 E

100 E

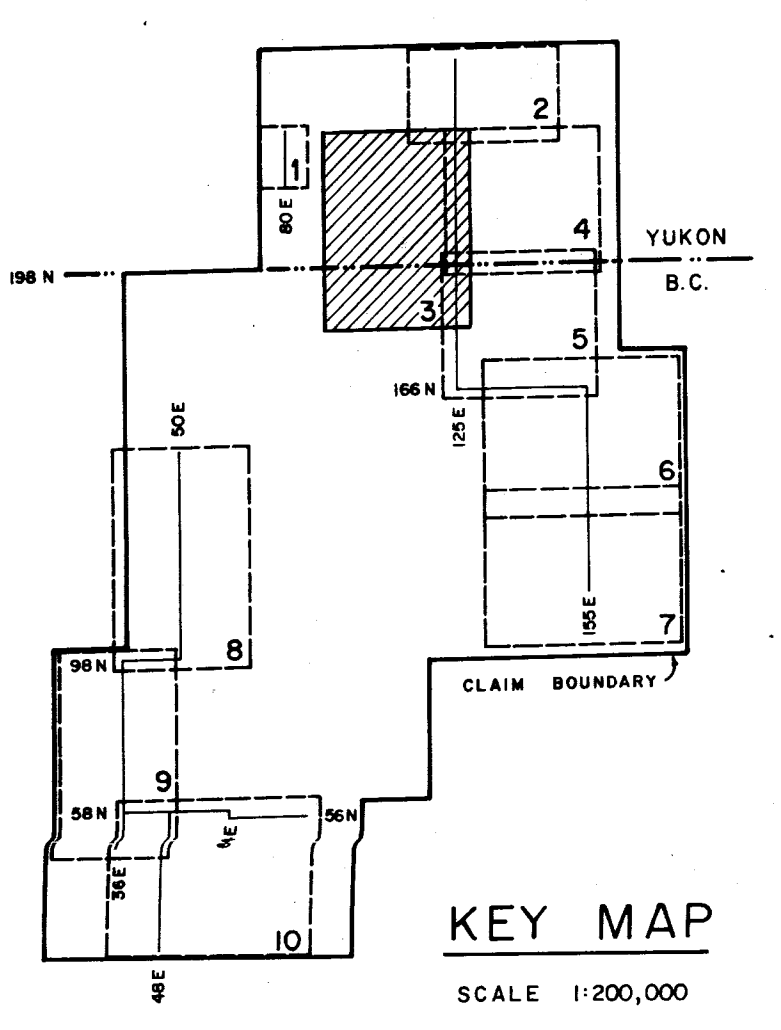
105 E

110 E

115 E

120 E

125 E BL



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
9912
NO. **Part 2 of 7**

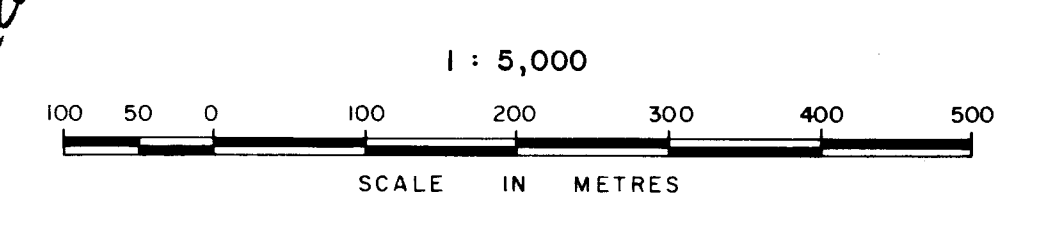
REGIONAL RESOURCES LTD.
AMAX MINERALS EXPLORATION

MIDWAY PROPERTY

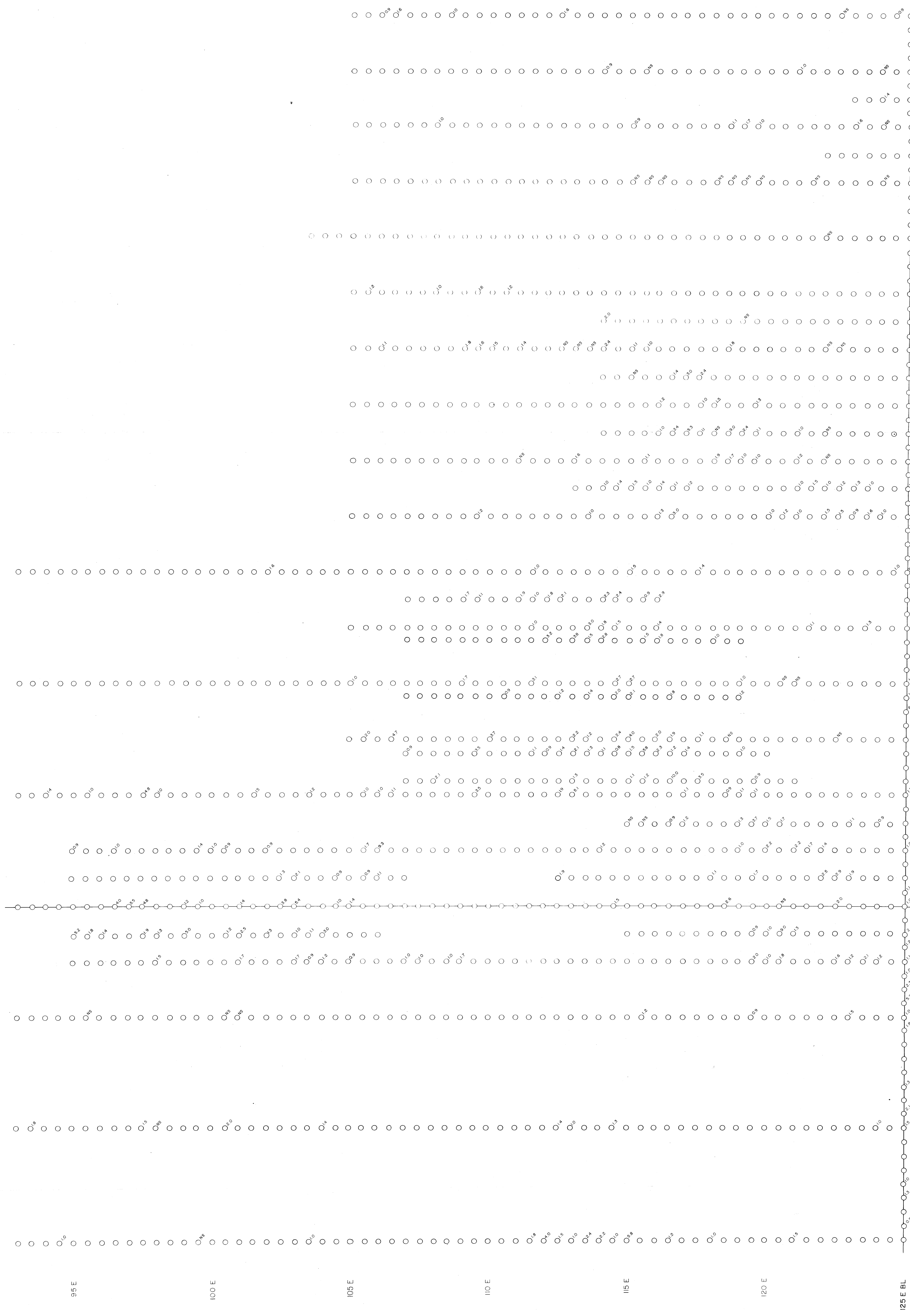
SOIL GEOCHEMISTRY - Zn

NORTH GRID KEY # 3

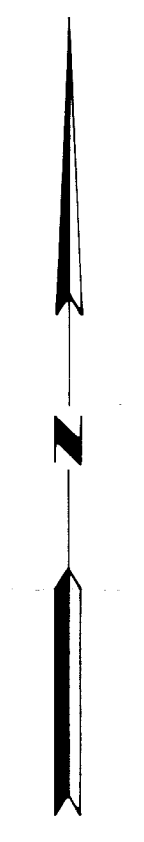
LIARD MINING DIVISION, B.C.
WATSON LAKE MINING DISTRICT, Y.T.
N.T.S. 104 D, 105 B



BY
CORDILLERAN ENGINEERING
408-355 BURNARD STREET
VANCOUVER, B.C. V6C 2S8



230 N
228 N
227 N
226 N
225 N
224 N
222 N
220 N
219 N
218 N
217 N
216 N
215 N
214 N
213 N
212 N
210 N
209 N
208 N
20750 N
206 N
20550 N
204 N
20350 N
20250 N
202 N
201 N
200 N
199 N
198 N B.C.-YUKON BORDER
197 N
196 N
194 N
190 N
186 N



LEGEND

Ag CONCENTRATION IN PPM	
○	BACKGROUND < 0.9
○	WEAKLY ANOMALOUS 0.9 - 2.0
○	MODERATELY ANOMALOUS 2.1 - 4.3
○	ANOMALOUS 4.4 - 9.0
○	STRONGLY ANOMALOUS > 9.0

NOTE: ONLY ABOVE BACKGROUND RESULTS PLOTTED

- SOIL SAMPLE LOCATION AND ELEMENT CONCENTRATION IN PPM
- NS NO SAMPLE COLLECTED
- IS INSUFFICIENT SAMPLE
- ⊕ LEGAL CORNER POSTS AND CLAIM BOUNDARIES

95 E

100 E

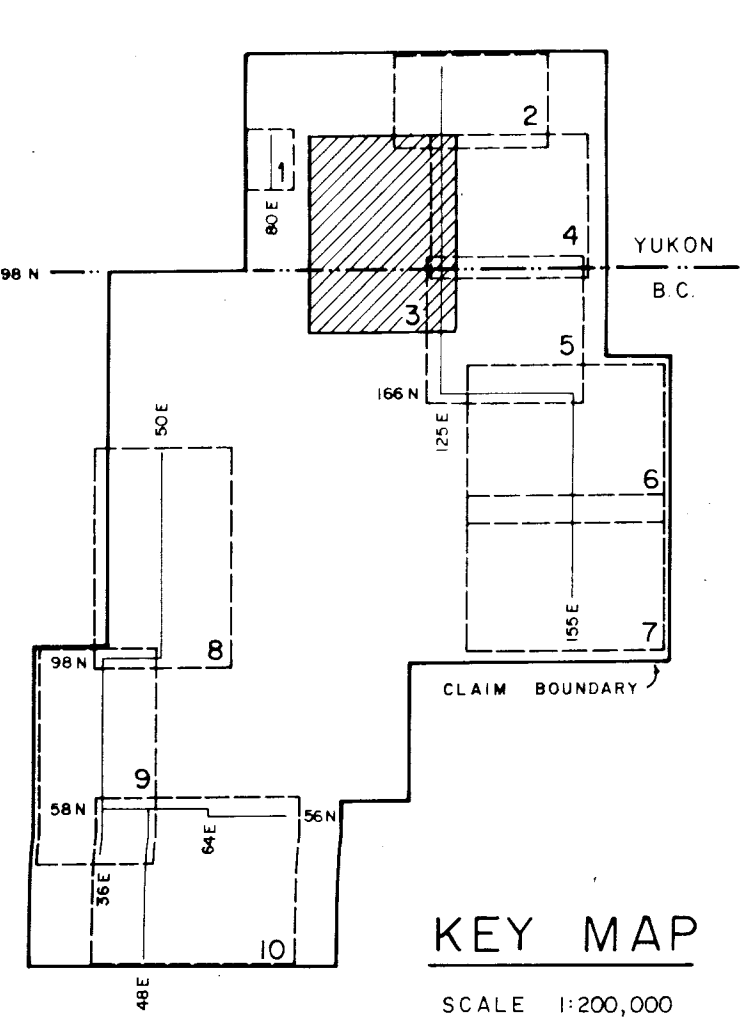
105 E

110 E

115 E

120 E

125 E BL



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
9912
NO. *Part 2 of 7*

REGIONAL RESOURCES LTD.
AMAX MINERALS EXPLORATION
MIDWAY PROPERTY

SOIL GEOCHEMISTRY - Ag
NORTH GRID KEY # 3

[Signature]
LIARD MINING DIVISION, B.C.
WATSON LAKE MINING DISTRICT, Y.T.
N.T.S. 104 D, 105 B
1:5,000
SCALE IN METRES

BY
CORDILLERAN ENGINEERING
419-355 BURNARD STREET
VANCOUVER, B.C. V6C 2S8

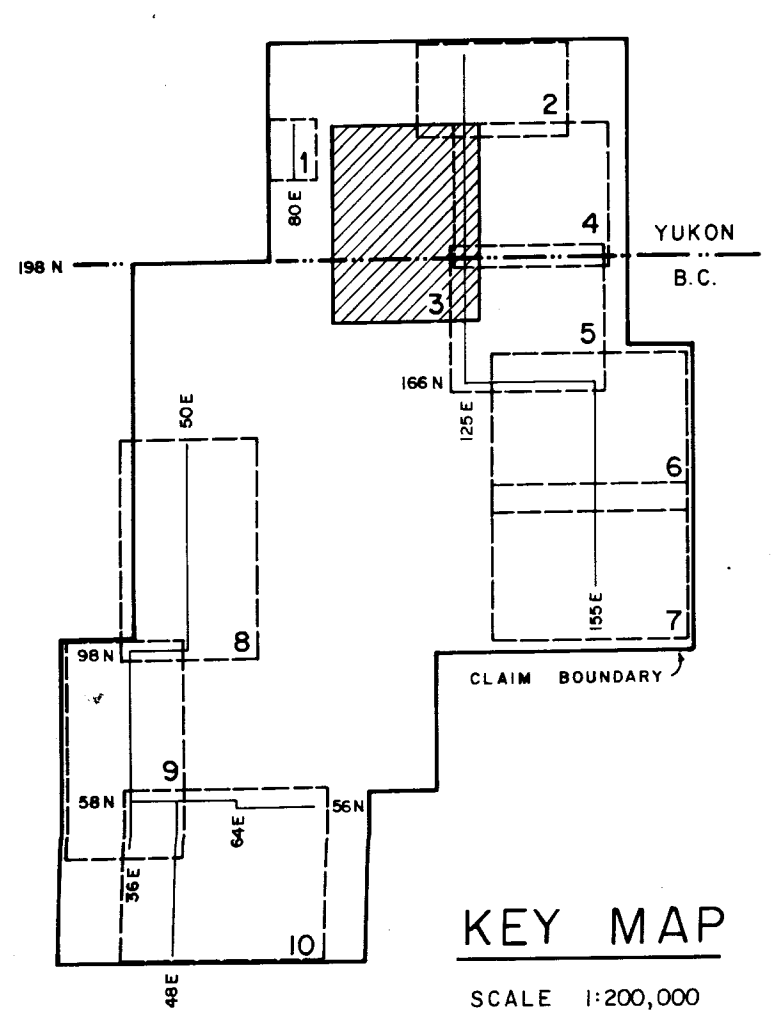


230 N
228 N
227 N
226 N
225 N
224 N
222 N
220 N
219 N
218 N
217 N
216 N
215 N
214 N
213 N
212 N
210 N
209 N
208 N
20750 N
206 N
20550 N
204 N
20350 N
20250 N
202 N
201 N
200 N
199 N
198 N B.C.-YUKON BORDER
197 N
196 N
194 N
190 N
186 N



LEGEND

- Ba CONCENTRATION IN PPM**
- BACKGROUND <math>< 2500</math>
 - WEAKLY ANOMALOUS 2500 - 4000
 - MODERATELY ANOMALOUS 4001 - 6500
 - ANOMALOUS 6501 - 10300
 - STRONGLY ANOMALOUS > 10300
- NOTE: ONLY ABOVE BACKGROUND RESULTS PLOTTED
- SOIL SAMPLE LOCATION AND ELEMENT CONCENTRATION IN PPM
 - NS NO SAMPLE COLLECTED
 - 15 INSUFFICIENT SAMPLE
 - ⊕ LEGAL CORNER POSTS AND CLAIM BOUNDARIES



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
9912
No.
Part 2 of 7

REGIONAL RESOURCES LTD.
AMAX MINERALS EXPLORATION

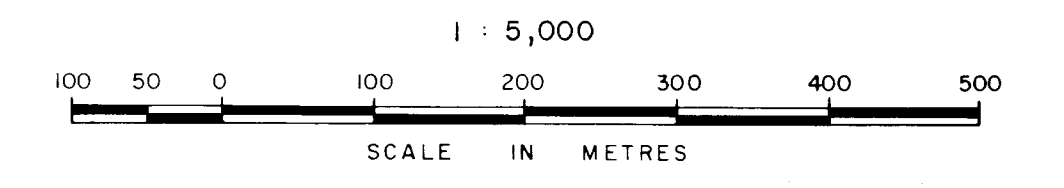
MIDWAY PROPERTY

SOIL GEOCHEMISTRY - Ba

NORTH GRID KEY # 3

LIARD MINING DIVISION, B.C.
WATSON LAKE MINING DISTRICT, Y.T.
N.T.S. 104 O, 105 B

J. Hank



BY
CORDILLERAN ENGINEERING
1418 - 355 BURNARD STREET
VANCOUVER, B.C. V6C 2R8