1988
REVERSE CIRCULATION DRILLING, GEOPHYSICAL, GEOCHEMICAL AND PROSPECTING REPORT

On the OKA PROPERTY

South Okanagan Area, Osoyoos Mining Division, B.C.
NTS: 82E-13W; Lat. 49°48'N; Long. 119°55'W

MARCH, 1989 (BC ASSESSMENT REPORT)

VOLUME II of II - PLATES

Part 2 of 2

REPORT DISTRIBUTION

Government	2
Fairfield	1
Placer Dome	1
Field	1
Cordilleran	Original
Total Prepared:	6 reports

This report consists of 2 Volumes: Volume I - Text & Appendices
Volume II - Plates

1 9 8 8

REVERSE CIRCULATION DRILLING, GEOPHYSICAL, GEOCHEMICAL AND PROSPECTING REPORT

ON THE OKA PROPERTY

(Oka #1-15, Iron Horse and Cap Claims)

Osoyoos Mining Division, B.C.
Latitude 49°48'N; Longitude 119°55'W.
NTS; 82/E-13W

For

FAIRFIELD MINERALS LTD.
Vancouver, British Columbia

and

PLACER DOME INC.
Vancouver, British Columbia

By

W. J. Jakubowski, B.Sc., Geologist

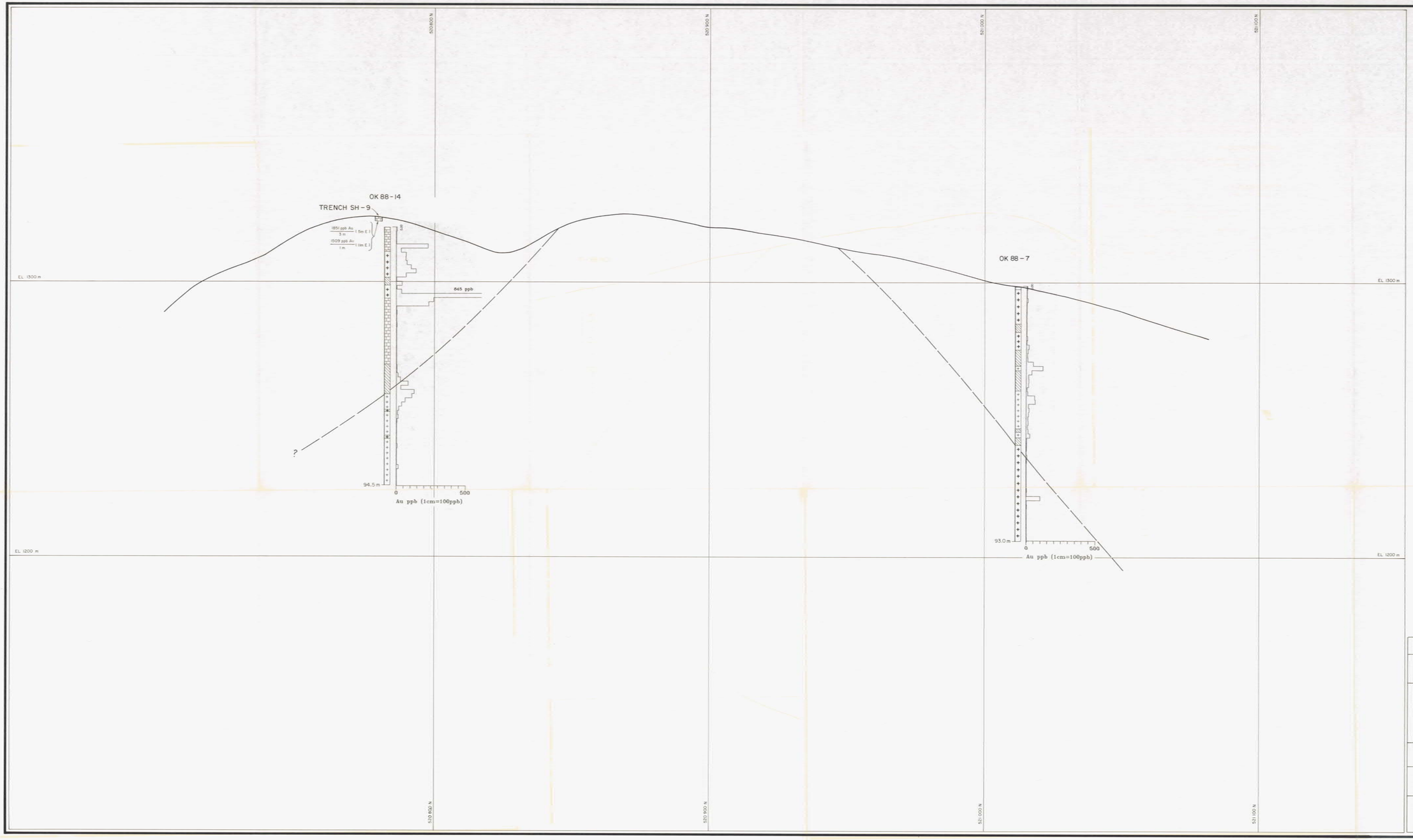
CORDILLERAN ENGINEERING LTD.
1980-1055 W. Hastings St.
Vancouver, B.C. V6E 2E9

Date Submitted: April, 1989
Work Period: April 18 - July 23, 1988

TABLE OF CONTENTS

APPENDICES

TABLE OF CONTENTS



LITHOLOGY

TERTIARY

FELDSPAR PORPHYRY, dykes of granitic(?) composition which may be related to the Coryell intrusions.

CRETACEOUS

NELSON PLUTONIC ROCKS

GRANODIORITE; medium to coarse grained, local moderate to strong quartz and sericite alteration occasionally bleached and containing fine red biotite (FGSB).

LOWER JURASSIC (?)

DIORITE DYKE or SILL; medium grained with local strong sericite alteration.

UPPER TRIASSIC

NICOLA GROUP

ANDESITE to BASALT, dark green, finely to coarsely crystalline with abundant feldspar and augite phenocrysts. Commonly chlorite altered.

CRYSTAL TUFF, fine grained, white to light grey siliceous matrix containing 10 to 40% .3 to 1.5 mm feldspar (?) crystals.

SILTSTONE; black, locally calcareous to lightly siliceous.

HORNFELS; black to medium grey to maroon, fine grained, siliceous.

FINE GRAINED SILICEOUS ROCK; bleached, very fine grained rock of undefined origin, possibly fine pyroclasts or bleached, silicified sediment. Noted in surface exposure interbedded with siltstone.

MEDIUM GRAINED SILICEOUS ROCK; bleached, .1 to .5mm grain size, of undefined origin, possibly a fine pyroclastic or bleached silicified sediment.

SKARN; coarse grained, predominantly red brown garnet with pyroxene, local epidote, calcite and Wollastonite.

MARBLE; light to dark grey, abundant calcite veinlets.

MASSIVE SULFIDE; dominantly pyrite, pyrrhotite with minor chalcopyrite and sphalerite. Commonly contains 10 to 30% skarn.

NOTE:
SYMBOLS OF INTERBEDDED LITHOLOGIES ARE SUPERIMPOSED.

SYMBOLS

LITHOLOGICAL CONTACT
Known, Assumed

FAULT
Known, Assumed

FAIRFIELD MINERALS LTD.

OKA PROPERTY
IRON HORSE AREA

REVERSE CIRCULATION DRILL SECTION 291 837 E

LOOKING WEST
SECTION AZIMUTH 0°

OSOYOOS MINING DIVISION, BRITISH COLUMBIA
NTS 82E/13W

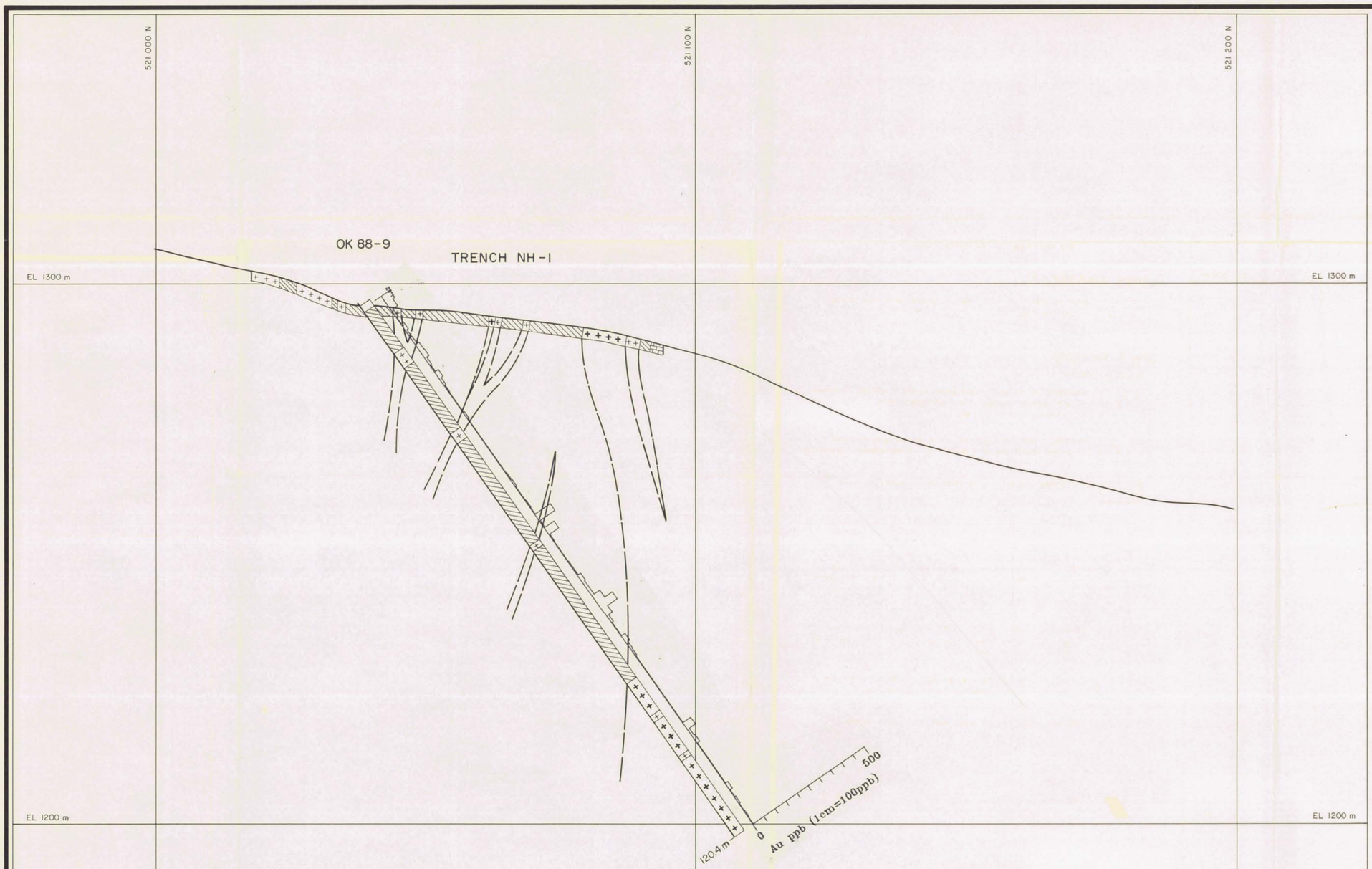
Scale = 1:500

meters 0 5 10 15 20 25 30 35 40 45 50 metres

CORDILLERAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

SEPTEMBER 1988

PLATE 1



LITHOLOGY

TERTIARY

FELDSPAR PORPHYRY; dykes of granitic (?) composition which may be related to the Coryell intrusions.

CRETACEOUS

NELSON PLUTONIC ROCKS

GRANODIORITE; medium to coarse grained, local moderate to strong quartz and sericite alteration occasionally bleached and containing fine red biotite (FGSB).

LOWER JURASSIC (?)

DIORITE DYKE or SILL; medium grained with local strong sericite alteration.

UPPER TRIASSIC

NICOLA GROUP

ANDESITE to BASALT; dark green, finely to coarsely crystalline with abundant feldspar and augite phenocrysts. Commonly chlorite altered.

CRYSTAL TUFF; fine grained, white to light grey siliceous matrix containing 10 to 40% .3 to 1.5 mm feldspar (?) crystals.

SILTSTONE; black, locally calcareous to lightly siliceous.

HORNFELS; black to medium grey to maroon, fine grained, siliceous.

FINE GRAINED SILICEOUS ROCK; bleached, very fine grained rock of undefined origin, possibly fine pyroclasts or bleached, silicified sediment. Noted in surface exposure interbedded with siltstone.

MEDIUM GRAINED SILICEOUS ROCK; bleached, .1 to .5 mm grain size, of undefined origin, possibly a fine pyroclastic or bleached silicified sediment.

SKARN; coarse grained, predominantly red brown garnet with pyroxene, local epidote, calcite and Wollastonite.

MARBLE; light to dark grey, abundant calcite veinlets.

MASSIVE SULFIDE; dominantly pyrite, pyrrhotite with minor chalcopyrite and sphalerite. Commonly contains 10 to 30% skarn.

NOTE:
SYMBOLS OF INTERBEDDED LITHOLOGIES ARE SUPERIMPOSED.

SYMBOLS

LITHOLOGICAL CONTACT
Known, Assumed

FAULT
Known, Assumed

FAIRFIELD MINERALS LTD.

OKA PROPERTY
IRON HORSE AREA

REVERSE CIRCULATION DRILL SECTION 291 798 E

LOOKING WEST
SECTION AZIMUTH 0°

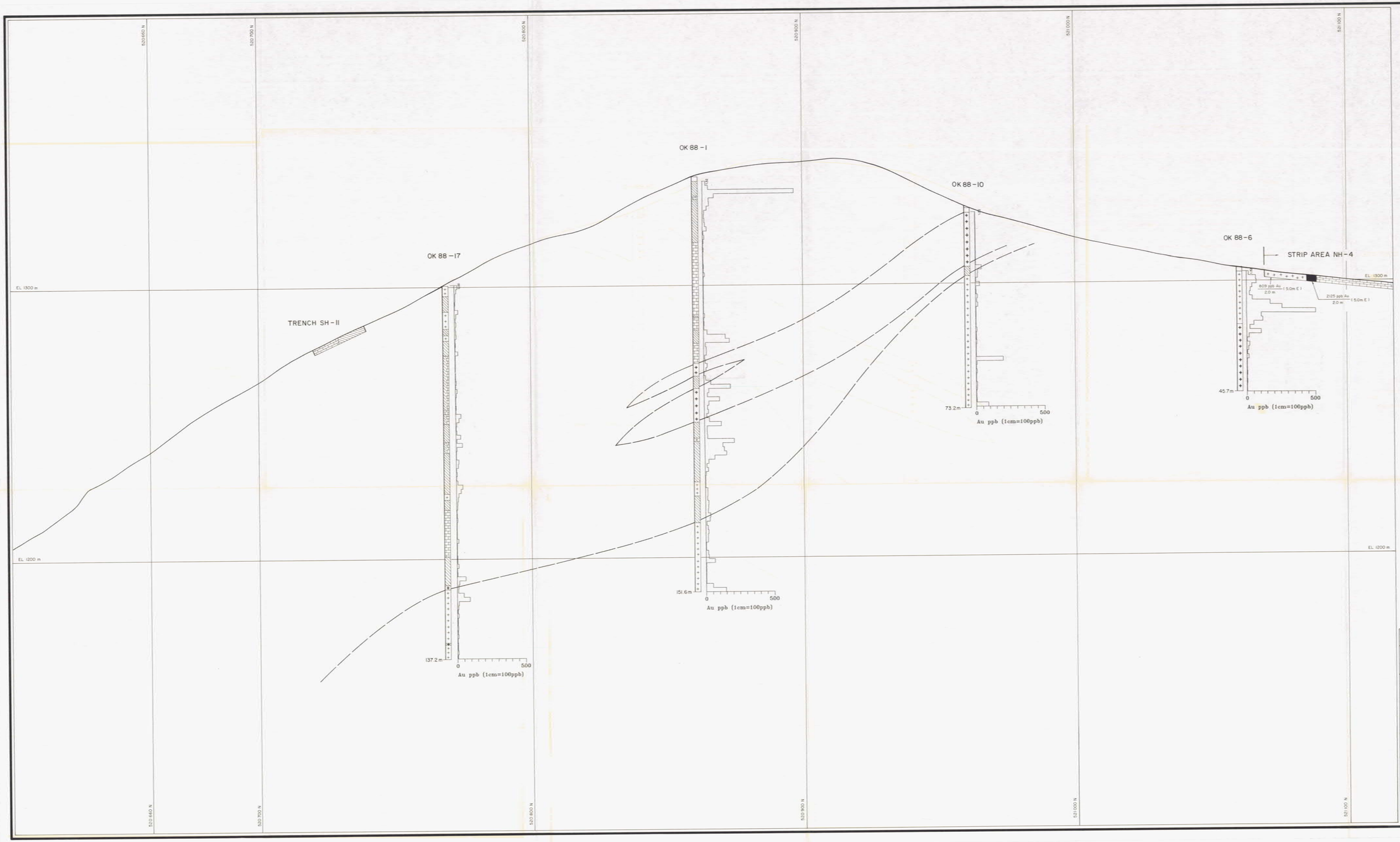
OSOYOOS MINING DIVISION, BRITISH COLUMBIA
NTS 82E/13W

Scale = 1:500

meters 0 5 10 15 20 25 30 35 40 45 50 metres

CORDILLERAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

SEPTEMBER 1988 W. Johnstone PLATE 2



LITHOLOGY

TERTIARY

FELDSPAR PORPHYRY; dykes of granitic(?) composition which may be related to the Coryell intrusions.

CRETACEOUS

NELSON PLUTONIC ROCKS

GRANODIORITE; medium to coarse grained, local moderate to strong quartz and sericite alteration occasionally bleached and containing fine red biotite (FGSB).

LOWER JURASSIC(?)

DIORITE DYKE or SILL; medium grained with local strong sericite alteration.

UPPER TRIASSIC

NICOLA GROUP

ANDESITE to BASALT; dark green, finely to coarsely crystalline with abundant feldspar and augite phenocrysts. Commonly chloritic altered.

CRYSTAL TUFF, fine grained, white to light grey siliceous matrix containing 10 to 40% .3 to 1.5 mm feldspar (?) crystals.

SILTSTONE; black, locally calcareous to lightly siliceous.

HORNFELS, black to medium grey to maroon, fine grained, siliceous.

FINE GRAINED SILICEOUS ROCK; bleached, very fine grained rock of undefined origin, possibly fine pyroclasts or bleached, silicified sediment. Noted in surface exposure interbedded with siltstone.

MEDIUM GRAINED SILICEOUS ROCK; bleached, 1 to 5 mm grain size, of undefined origin, possibly a fine pyroclastic or bleached silicified sediment.

SKARN; coarse grained, predominantly red brown garnet with pyroxene, local epidote, calcite and Wollastonite.

MARBLE; light to dark grey, abundant calcite veinlets.

MASSIVE SULFIDE, dominantly pyrite, pyrrhotite with minor chalcopyrite and sphalerite. Commonly contains 10 to 30% skarn.

NOTE:
SYMBOLS OF INTERBEDDED LITHOLOGIES ARE SUPERIMPOSED.

SYMBOLS

LITHOLOGICAL CONTACT
Known, Assumed

FAULT
Known, Assumed

FAIRFIELD MINERALS LTD.

OKA PROPERTY
IRON HORSE AREA

REVERSE CIRCULATION DRILL SECTION 291 742 E

LOOKING WEST
SECTION AZIMUTH 0°

OSOYOOS MINING DIVISION, BRITISH COLUMBIA
NTS 82E/13W

Scale = 1:500

meters 0 5 10 15 20 25 30 35 40 45 50 metres

CORDILLERAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

SEPTEMBER 1988

PLATE 3

520 600 N
520 700 N
520 800 N
520 900 N
521 000 N
521 100 N

EL 1300 m
EL 1200 m
EL 1100 m
EL 1000 m

OK 88-2
OK 88-11
OK 88-22
TRENCH NH-4A
TRENCH NH-4B
OK 88-16
OK 88-19
TRENCH SH-13
OK 88-23

4697 ppb Au
1.8 m
4731 ppb Au
1.8 m
1020 ppb
1290 ppb
1080 ppb
870 ppb
9460 ppb

141.1 m
118.9 m
42.6 m
194.6 m
213.4 m
200.7 m

0 500
Au ppb (1cm=100ppb)

LITHOLOGY

TERTIARY

FELDSPAR PORPHYRY, dykes of granitic(?) composition which may be related to the Coryell intrusions.

CRETACEOUS

NELSON PLUTONIC ROCKS

GRANODIORITE, medium to coarse grained, local moderate to strong quartz and sericite alteration occasionally bleached and containing fine red biotite (FOSS).

LOWER JURASSIC (?)

DIORITE DYKE or SILL, medium grained with local strong sericite alteration.

UPPER TRIASSIC

NICOLA GROUP

ANDESITE to BASALT; dark green, finely to coarsely crystalline with abundant feldspar and augite phenocrysts. Commonly chlorite altered.

CRYSTAL TUFF, fine grained, white to light grey siliceous matrix containing 10 to 40% 3 to 1.5 mm feldspar (?) crystals.

SILTSTONE, black, locally calcareous to lightly siliceous.

HORNFELS, black to medium grey to maroon, fine grained, siliceous.

FINE GRAINED SILICEOUS ROCK; bleached, very fine grained rock of undefined origin, possibly fine pyroclastic or bleached, silicified sediment. Noted in surface exposure interbedded with siltstone.

MEDIUM GRAINED SILICEOUS ROCK; bleached, 1 to 5mm grain size, of undefined origin, possibly a fine pyroclastic or bleached silicified sediment.

SKARN; coarse grained, predominantly red brown garnet with pyroxene, local epidote, calcite and Wollastonite.

MARBLE; light to dark grey, abundant calcite veinlets.

MASSIVE SULFIDE; dominantly pyrite, pyrrhotite with minor chalcopyrite and sphalerite. Commonly contains 10 to 30% skarn.

NOTE:
SYMBOLS OF INTERBEDDED LITHOLOGIES ARE SUPERIMPOSED.

SYMBOLS

LITHOLOGICAL CONTACT
Known, Assumed

FAULT
Known, Assumed

FAIRFIELD MINERALS LTD.

OKA PROPERTY
IRON HORSE AREA

REVERSE CIRCULATION DRILL SECTION 291 641 E

LOOKING WEST
SECTION AZIMUTH 0°

OSOYOOS MINING DIVISION, BRITISH COLUMBIA
NTS 82E/15W

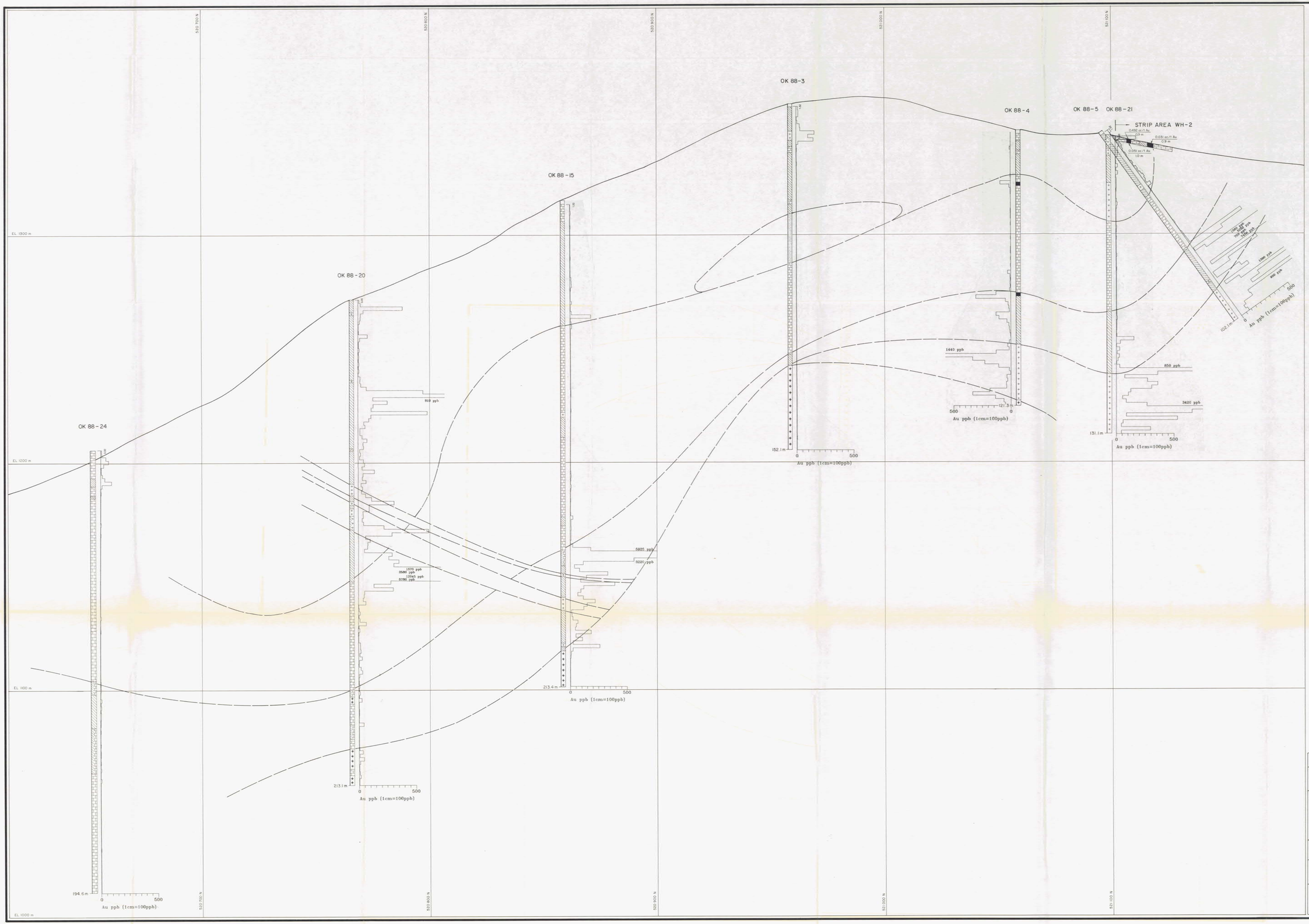
Scale = 1:500

meters 0 5 10 15 20 25 30 35 40 45 50 metres

CORDILLERAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

SEPTEMBER 1988

PLATE 4



LITHOLOGY

TERTIARY

FELDSPAR PORPHYRY; dykes of granitic(?) composition which may be related to the Coryell intrusions.

CRETACEOUS

NELSON PLUTONIC ROCKS

GRANODIORITE; medium to coarse grained, local moderate to strong quartz and sericite alteration occasionally bleached and containing fine red biotite (HSSB).

LOWER JURASSIC(?)

DIORITE DYKE or SILL; medium grained with local strong sericite alteration.

UPPER TRIASSIC

NICOLA GROUP

ANDESITE to BASALT; dark green, finely to coarsely crystalline with abundant feldspar and augite phenocrysts. Commonly chlorite altered.

CRYSTAL TUFF, fine grained, white to light grey siliceous matrix containing 10 to 40% .5 to 1.5 mm feldspar (?) crystals.

SILTSTONE; black, locally calcareous to lightly siliceous.

HORNFELS, black to medium grey to maroon, fine grained, siliceous.

FINE GRAINED SILICEOUS ROCK; bleached, very fine grained rock of undefined origin, possibly fine pyroclasts or bleached, silicified sediment. Noted in surface exposure interbedded with siltstone.

MEDIUM GRAINED SILICEOUS ROCK; bleached, .5 to 5mm grain size, of undefined origin, possibly a fine pyroclastic or bleached silicified sediment.

SKARN; coarse grained, predominantly red brown garnet with pyroxene, local epidote, calcite and Wollastonite.

MARBLE; light to dark grey, abundant calcite veinlets.

MASSIVE SULFIDE; dominantly pyrite, pyrrhotite with minor chalcopyrite and sphalerite. Commonly contains 10 to 30% skarn.

NOTE:
SYMBOLS OF INTERBEDDED LITHOLOGIES ARE SUPERIMPOSED.

SYMBOLS

LITHOLOGICAL CONTACT
Known, Assumed

FAULT
Known, Assumed

FAIRFIELD MINERALS LTD.

OKA PROPERTY
IRON HORSE AREA

REVERSE CIRCULATION DRILL SECTION 291 542 E

LOOKING WEST
SECTION AZIMUTH 0°

OSOYOOS MINING DIVISION, BRITISH COLUMBIA
NTS 82E/13W

Scale = 1:500

meters 0 5 10 15 20 25 30 35 40 45 50 metres

CORDILLERAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

SEPTEMBER 1988 W. Johnson PLATE 5

521 000 N

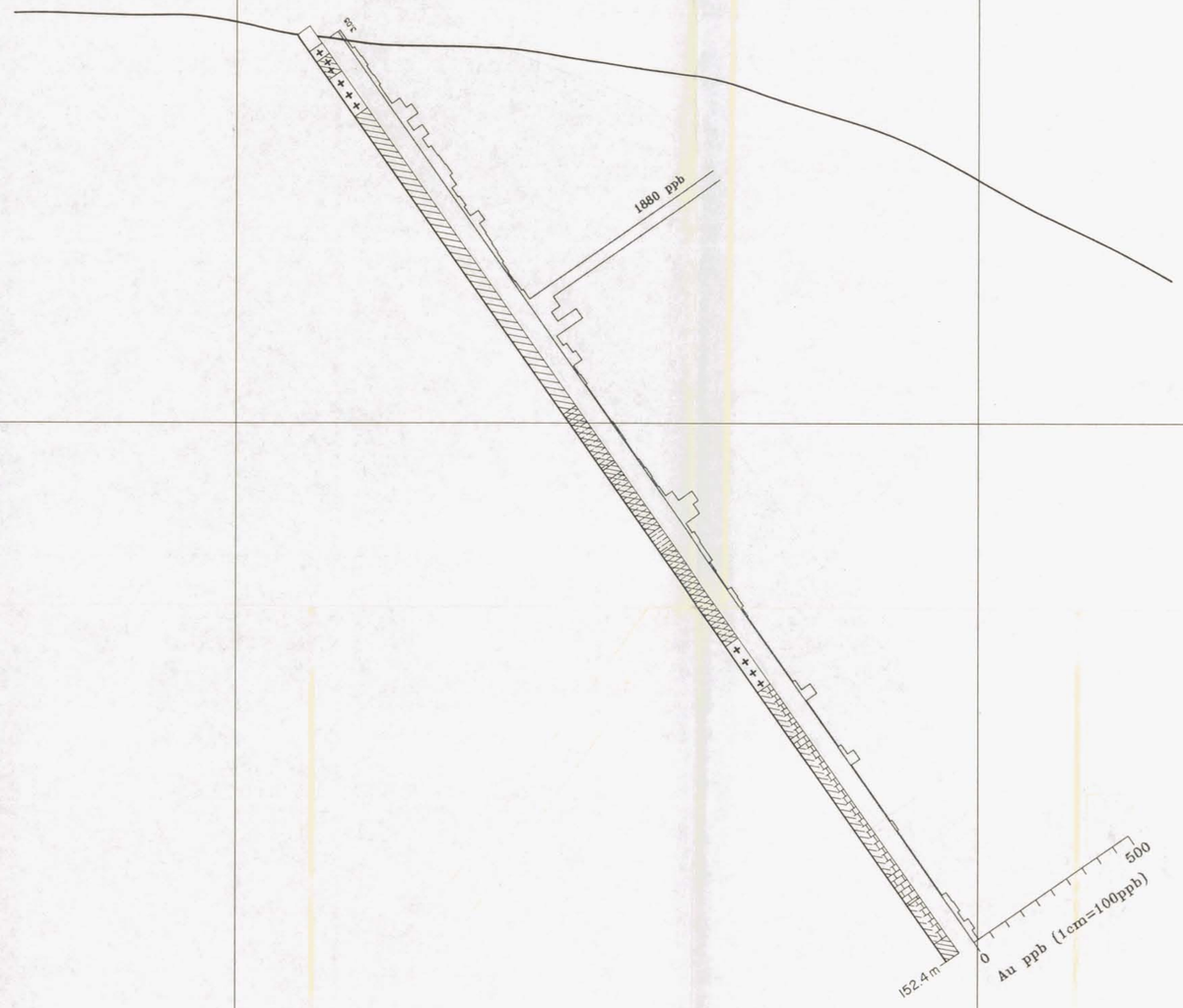
521 200 N

EL 1400 m

EL 1300 m

EL 1200 m

OK 88 - 41



521 100 N

521 200 N

LITHOLOGY

TERTIARY

FELDSPAR PORPHYRY; dykes of granitic (?) composition which may be related to the Coryell intrusions.

CRETACEOUS

NELSON PLUTONIC ROCKS

GRANODIORITE; medium to coarse grained, local moderate to strong quartz and sericite alteration occasionally bleached and containing fine red biotite (FGSB).

LOWER JURASSIC (?)

DIORITE DYKE or SILL; medium grained with local strong sericite alteration.

UPPER TRIASSIC

NICOLA GROUP

ANDESITE to BASALT; dark green, finely to coarsely crystalline with abundant feldspar and augite phenocrysts. Commonly chlorite altered.

CRYSTAL TUFF; fine grained, white to light grey siliceous matrix containing 10 to 40% .3 to 1.5 mm feldspar (?) crystals.

SILTSTONE; black, locally calcareous to lightly siliceous.

HORNFELS; black to medium grey to maroon, fine grained, siliceous.

FINE GRAINED SILICEOUS ROCK; bleached, very fine grained rock of undefined origin, possibly fine pyroclasts or bleached, silicified sediment. Noted in surface exposure interbedded with siltstone.

MEDIUM GRAINED SILICEOUS ROCK; bleached, .1 to .5 mm grain size, of undefined origin, possibly a fine pyroclastic or bleached silicified sediment.

SKARN; coarse grained, predominantly red brown garnet with pyroxene, local epidote, calcite and Wollastonite.

MARBLE; light to dark grey, abundant calcite veinlets.

MASSIVE SULFIDE; dominantly pyrite, pyrrhotite with minor chalcopyrite and sphalerite. Commonly contains 10 to 30% skarn.

NOTE:
SYMBOLS OF INTERBEDDED LITHOLOGIES ARE SUPERIMPOSED.

SYMBOLS

LITHOLOGICAL CONTACT
Known, Assumed

FAULT
Known, Assumed

FAIRFIELD MINERALS LTD.

OKA PROPERTY
IRON HORSE AREA

REVERSE CIRCULATION DRILL SECTION 291455E

LOOKING WEST
SECTION AZIMUTH 0°

OSOYOOS MINING DIVISION, BRITISH COLUMBIA
NTS 82E/13W

Scale = 1:500

meters 0 5 10 15 20 25 30 35 40 45 50 metres

CORDILLERAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

SEPTEMBER 1988 W. Johnbosh

PLATE 6

291 200 E

291 300 E

291 400 E

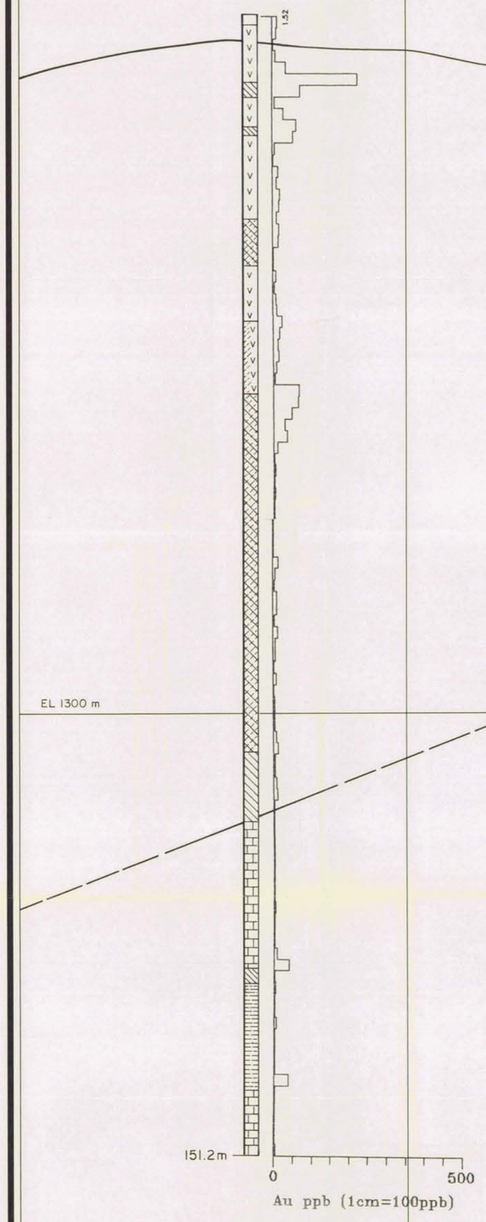
EL 1400 m

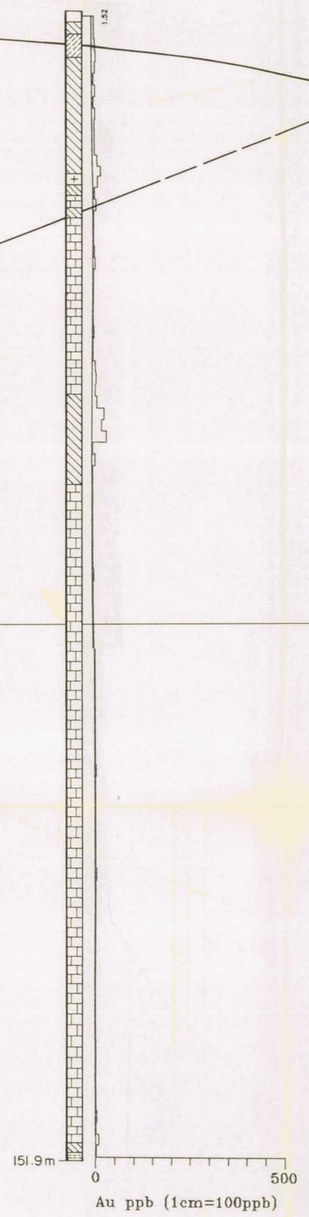
OK 88-13

OK 88-12

EL 1300 m

EL 1200 m





LITHOLOGY

TERTIARY

FELDSPAR PORPHYRY; dykes of granitic(?) composition which may be related to the Coryell intrusions.

CRETACEOUS

NELSON PLUTONIC ROCKS

GRANODIORITE; medium to coarse grained, local moderate to strong quartz and sericite alteration occasionally bleached and containing fine red biotite (FGSB).

LOWER JURASSIC (?)

DIORITE DYKE or SILL; medium grained with local strong sericite alteration.

UPPER TRIASSIC

NICOLA GROUP

ANDESITE to BASALT; dark green, finely to coarsely crystalline with abundant feldspar and augite phenocrysts. Commonly chlorite altered.

CRYSTAL TUFF; fine grained, white to light grey siliceous matrix containing 10 to 40% .3 to 1.5 mm feldspar (?) crystals.

SILTSTONE; black, locally calcareous to lightly siliceous.

HORNFELS; black to medium grey to maroon, fine grained, siliceous.

FINE GRAINED SILICEOUS ROCK; bleached, very fine grained rock of undefined origin, possibly fine pyroclasts or bleached, silicified sediment. Noted in surface exposure interbedded with siltstone.

MEDIUM GRAINED SILICEOUS ROCK; bleached, .1 to .5 mm grain size, of undefined origin, possibly a fine pyroclastic or bleached silicified sediment.

SKARN; coarse grained, predominantly red brown garnet with pyroxene, local epidote, calcite and Wollastonite.

MARBLE; light to dark grey, abundant calcite veinlets.

MASSIVE SULFIDE; dominantly pyrite, pyrrhotite with minor chalcopyrite and sphalerite. Commonly contains 10 to 30% skarn.

NOTE:
SYMBOLS OF INTERBEDDED LITHOLOGIES ARE SUPERIMPOSED.

SYMBOLS

LITHOLOGICAL CONTACT
Known, Assumed

FAULT
Known, Assumed

FAIRFIELD MINERALS LTD.

OKA PROPERTY
IRON HORSE AREA

REVERSE CIRCULATION DRILL SECTION 521023N

LOOKING NORTH
SECTION AZIMUTH 90°

OSOYOOS MINING DIVISION, BRITISH COLUMBIA
NTS 82E/13W

Scale = 1:500

meters 0 5 10 15 20 25 30 35 40 45 50 metres

CORDILLERAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

SEPTEMBER 1988 W. Johnstone

PLATE 7

1900 E

2000 E

EL 1300 m

EL 1200 m

EL 1100 m

OK 88-8

78.6 m

500 0

Au ppb (1cm=100ppb)

LITHOLOGY

TERTIARY

FELDSPAR PORPHYRY; dykes of granitic (?) composition which may be related to the Coryell intrusions.

CRETACEOUS

NELSON PLUTONIC ROCKS

GRANODIORITE; medium to coarse grained, local moderate to strong quartz and sericite alteration occasionally bleached and containing fine red biotite (FGSB).

LOWER JURASSIC (?)

DIORITE DYKE or SILL; medium grained with local strong sericite alteration.

UPPER TRIASSIC

NICOLA GROUP

ANDESITE to BASALT; dark green, finely to coarsely crystalline with abundant feldspar and augite phenocrysts. Commonly chlorite altered.

CRYSTAL TUFF; fine grained, white to light grey siliceous matrix containing 10 to 40% .3 to 1.5 mm feldspar (?) crystals.

SILTSTONE; black, locally calcareous to lightly siliceous.

HORNFELS; black to medium grey to maroon, fine grained, siliceous.

FINE GRAINED SILICEOUS ROCK; bleached, very fine grained rock of undefined origin, possibly fine pyroclasts or bleached, silicified sediment. Noted in surface exposure interbedded with siltstone.

MEDIUM GRAINED SILICEOUS ROCK; bleached, .1 to .5mm grain size, of undefined origin, possibly a fine pyroclastic or bleached silicified sediment.

SKARN; coarse grained, predominantly red brown garnet with pyroxene, local epidote, calcite and Wollastonite.

MARBLE; light to dark grey, abundant calcite veinlets.

MASSIVE SULFIDE; dominantly pyrite, pyrrhotite with minor chalcopyrite and sphalerite. Commonly contains 10 to 30% skarn.

NOTE:
SYMBOLS OF INTERBEDDED LITHOLOGIES ARE SUPERIMPOSED.

SYMBOLS

LITHOLOGICAL CONTACT
Known, Assumed

FAULT
Known, Assumed

FAIRFIELD MINERALS LTD.

OKA PROPERTY
IRON HORSE AREA

REVERSE CIRCULATION DRILL SECTION 521 060 N

LOOKING NORTH
SECTION AZIMUTH 90°

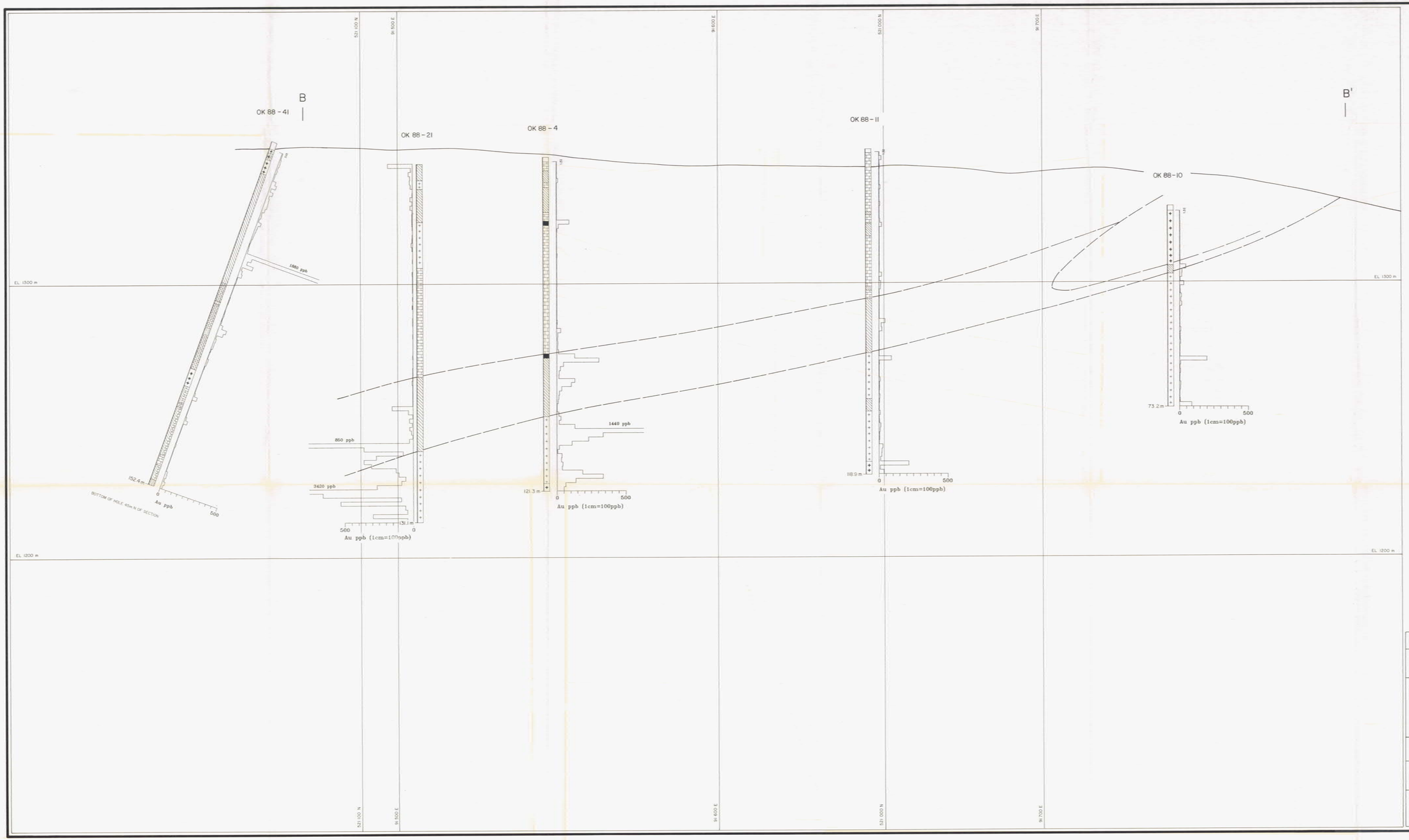
OSOYOOS MINING DIVISION, BRITISH COLUMBIA
NTS 82E/13W

Scale = 1:500

meters 0 5 10 15 20 25 30 35 40 45 50 metres

CORDILLERAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

SEPTEMBER 1988 A Johnson PLATE 8



LITHOLOGY

TERTIARY

FELDSPAR PORPHYRY; dykes of granitic(?) composition which may be related to the Coryell intrusions.

CRETACEOUS

NELSON PLUTONIC ROCKS

GRANODIORITE; medium to coarse grained, local moderate to strong quartz and sericite alteration occasionally bleached and containing fine red biotite (FGSB).

LOWER JURASSIC (?)

DIORITE DYKE or SILL; medium grained with local strong sericite alteration.

UPPER TRIASSIC

NICOLA GROUP

ANDESITE to BASALT; dark green, finely to coarsely crystalline with abundant feldspar and augite phenocrysts. Commonly chlorite altered.

CRYSTAL TUFF; fine grained, white to light grey siliceous matrix containing 10 to 40% .3 to 1.5 mm feldspar (?) crystals.

SILTSTONE; black, locally calcareous to lightly siliceous.

HORNFELS; black to medium grey to maroon, fine grained, siliceous.

FINE GRAINED SILICEOUS ROCK; bleached, very fine grained rock of undefined origin, possibly fine pyroclasts or bleached, silicified sediment. Noted in surface exposure interbedded with siltstone.

MEDIUM GRAINED SILICEOUS ROCK; bleached, .1 to .5mm grain size, of undefined origin, possibly a fine pyroclastic or bleached silicified sediment.

SKARN; coarse grained, predominantly red brown garnet with pyroxene, local epidote, calcite and Wollastonite.

MARBLE; light to dark grey, abundant calcite veinlets.

MASSIVE SULFIDE; dominantly pyrite, pyrrhotite with minor chalcopyrite and sphalerite. Commonly contains 10 to 30% skarn.

NOTE:
SYMBOLS OF INTERBEDDED LITHOLOGIES ARE SUPERIMPOSED.

SYMBOLS

LITHOLOGICAL CONTACT
Known, Assumed

FAULT
Known, Assumed

FAIRFIELD MINERALS LTD.

OKA PROPERTY
IRON HORSE AREA

REVERSE CIRCULATION DRILL SECTION B – B'

LOOKING NORTHEAST
SECTION AZIMUTH 301°

OSOYOOS MINING DIVISION, BRITISH COLUMBIA
NTS 82E/13W

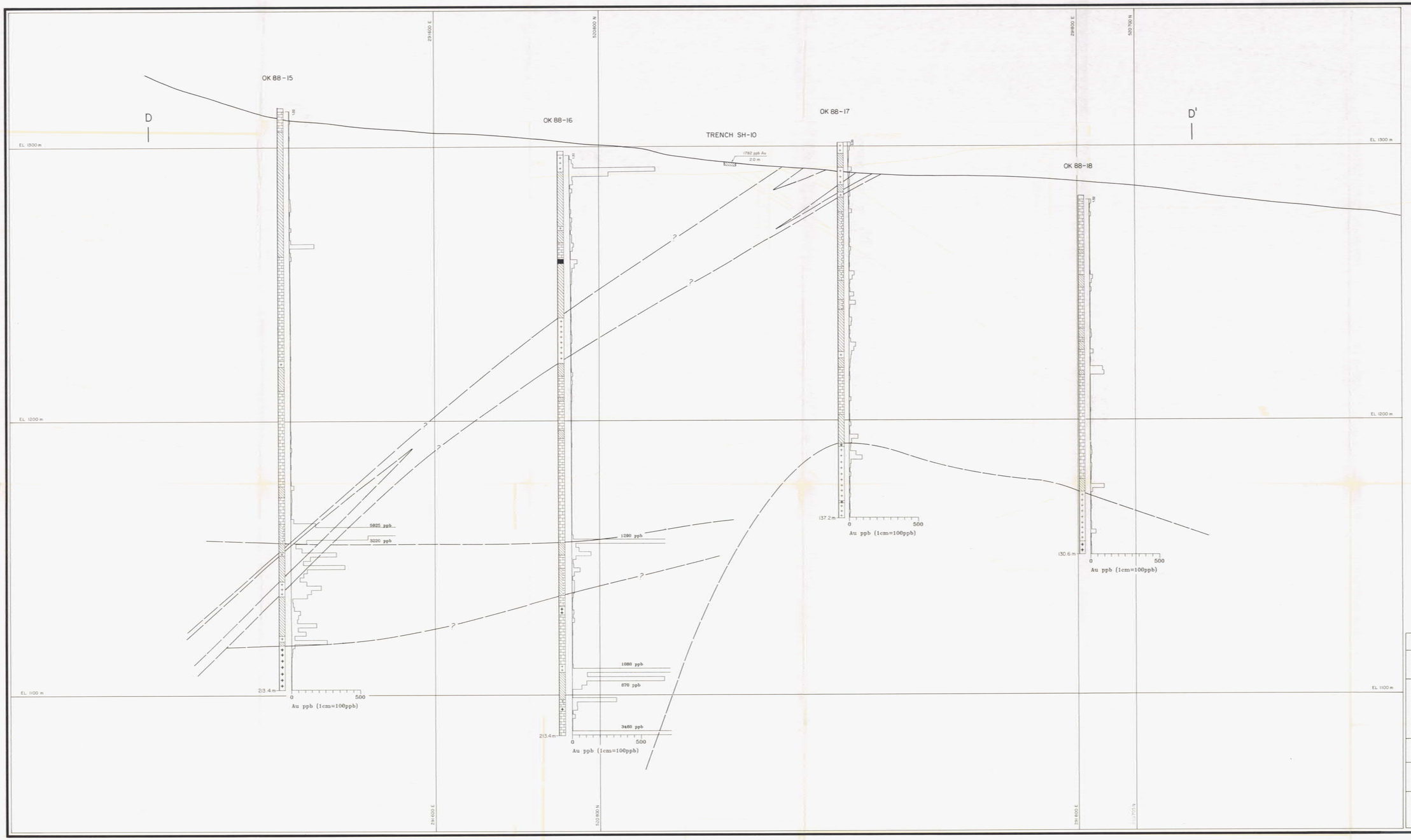
Scale = 1:500

meters 0 5 10 15 20 25 30 35 40 45 50 metres

CORDILLERAN ENGINEERING LTD.
1980 - 1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

SEPTEMBER 1988

PLATE 9



LITHOLOGY

TERTIARY

FELDSPAR PORPHYRY, dykes of granitic(?) composition which may be related to the Coryell intrusions.

CRETACEOUS

NELSON PLUTONIC ROCKS

GRANODIORITE, medium to coarse grained, local moderate to strong quartz and sericite alteration occasionally bleached and containing fine red biotite (FGSB).

LOWER JURASSIC (?)

DIORITE DYKE or SILL, medium grained with local strong sericite alteration.

UPPER TRIASSIC

NICOLA GROUP

ANDESITE to BASALT; dark green, finely to coarsely crystalline with abundant feldspar and augite phenocrysts. Commonly chlorite altered.

CRYSTAL TUFF, fine grained, white to light grey siliceous matrix containing 10 to 40% .3 to 1.5 mm feldspar (?) crystals.

SILTSTONE, black, locally calcareous to lightly siliceous.

HORNFELS, black to medium grey to maroon, fine grained, siliceous.

FINE GRAINED SILICEOUS ROCK; bleached, very fine grained rock of undefined origin, possibly fine pyroclasts or bleached, silicified sediment. Noted in surface exposure interbedded with siltstone.

MEDIUM GRAINED SILICEOUS ROCK; bleached, .1 to .5mm grain size, of undefined origin, possibly a fine pyroclastic or bleached silicified sediment.

SKARN, coarse grained, predominantly red brown garnet with pyroxene, local epidote, calcite and Wollastonite.

MARBLE; light to dark grey, abundant calcite veinlets.

MASSIVE SULFIDE, dominantly pyrite, pyrrhotite with minor chalcopyrite and sphalerite. Commonly contains 10 to 30% skarn.

NOTE:
SYMBOLS OF INTERBEDDED LITHOLOGIES ARE SUPERIMPOSED.

SYMBOLS

LITHOLOGICAL CONTACT
Known, Assumed

FAULT
Known, Assumed

FAIRFIELD MINERALS LTD.

OKA PROPERTY
IRON HORSE AREA

REVERSE CIRCULATION DRILL SECTION D - D'

LOOKING NORTHEAST
SECTION AZIMUTH 301°

OSOYOOS MINING DIVISION, BRITISH COLUMBIA
NTS 82E/13W

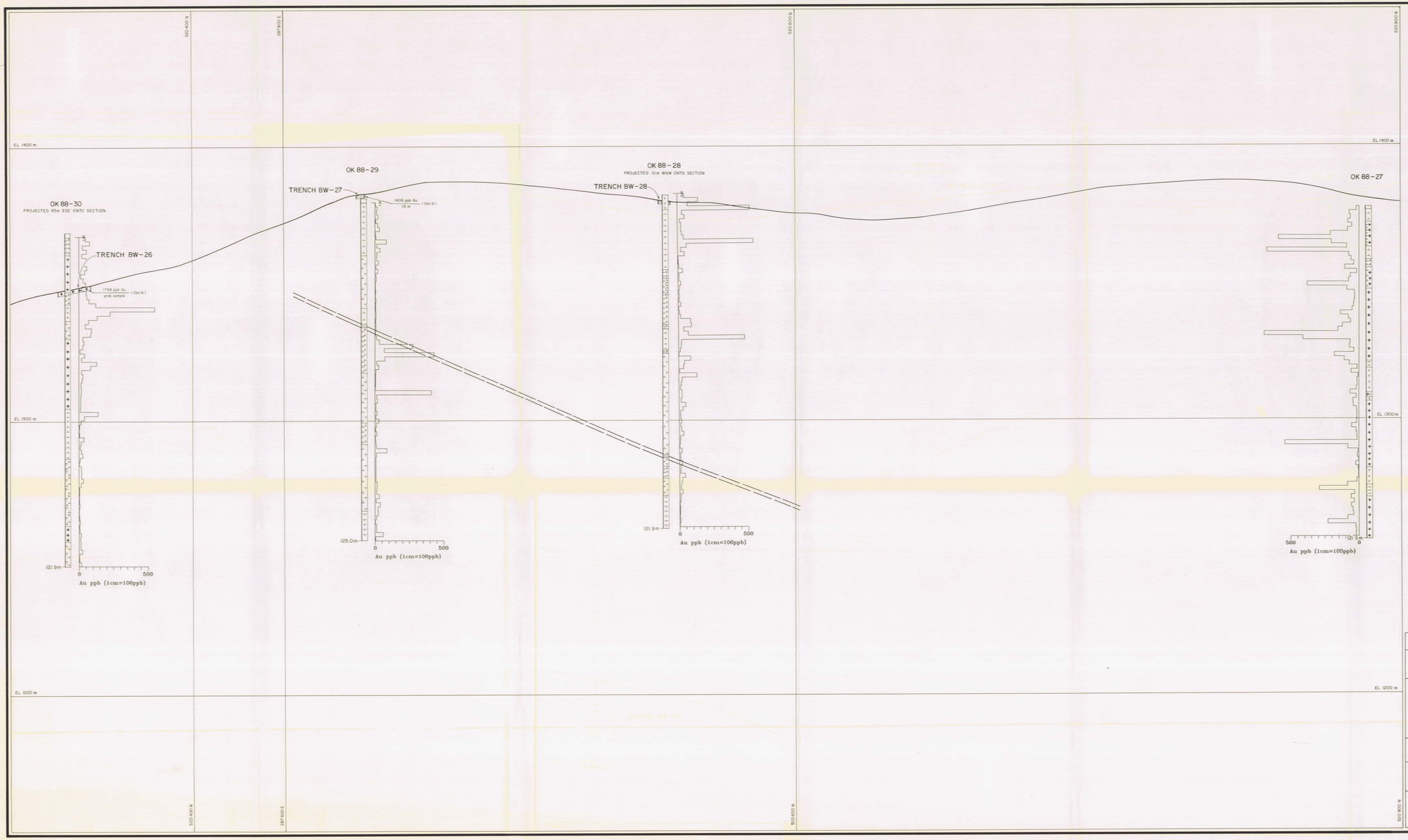
Scale = 1:500

meters 0 5 10 15 20 25 30 35 40 45 50 metres

CORDILLERAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

SEPTEMBER 1988

PLATE 10



LITHOLOGY

TERTIARY

FELDSPAR PORPHYRY, dykes of granitic(?) composition which may be related to the Coryell intrusions.

CRETACEOUS

NELSON PLUTONIC ROCKS

GRANODIORITE, medium to coarse grained, local moderate to strong quartz and sericite alteration occasionally bleached and containing fine red biotite (FGSB).

LOWER JURASSIC (?)

DIORITE DYKE or SILL, medium grained with local strong sericite alteration.

UPPER TRIASSIC

NICOLA GROUP

ANDESITE to BASALT, dark green, finely to coarsely crystalline with abundant feldspar and augite phenocrysts. Commonly chlorite altered.

CRYSTAL TUFF, fine grained, white to light grey siliceous matrix containing 10 to 40% .3 to 1.5 mm feldspar (?) crystals.

SILTSTONE, black, locally calcareous to lightly siliceous.

HORNFELS, black to medium grey to maroon, fine grained, siliceous.

FINE GRAINED SILICEOUS ROCK, bleached, very fine grained rock of undefined origin, possibly fine pyroclasts or bleached, silicified sediment. Noted in surface exposure interbedded with siltstone.

MEDIUM GRAINED SILICEOUS ROCK, bleached, .1 to .5mm grain size, of undefined origin, possibly a fine pyroclastic or bleached silicified sediment.

SKARN, coarse grained, predominantly red brown garnet with pyroxene, local epidote, calcite and Wollastonite.

MARBLE, light to dark grey, abundant calcite veinlets.

MASSIVE SULFIDE, dominantly pyrite, pyrrhotite with minor chalcopyrite and sphalerite. Commonly contains 10 to 30% skarn

NOTE:
SYMBOLS OF INTERBEDDED LITHOLOGIES ARE SUPERIMPOSED.

SYMBOLS

LITHOLOGICAL CONTACT
Known, Assumed

FAULT
Known, Assumed

FAIRFIELD MINERALS LTD.

OKA PROPERTY
BOLIVAR WEST AREA

REVERSE CIRCULATION DRILL SECTION A – A'

LOOKING NORTHWEST
SECTION AZIMUTH 26°

OSOYOOS MINING DIVISION, BRITISH COLUMBIA
NTS 82E/13W

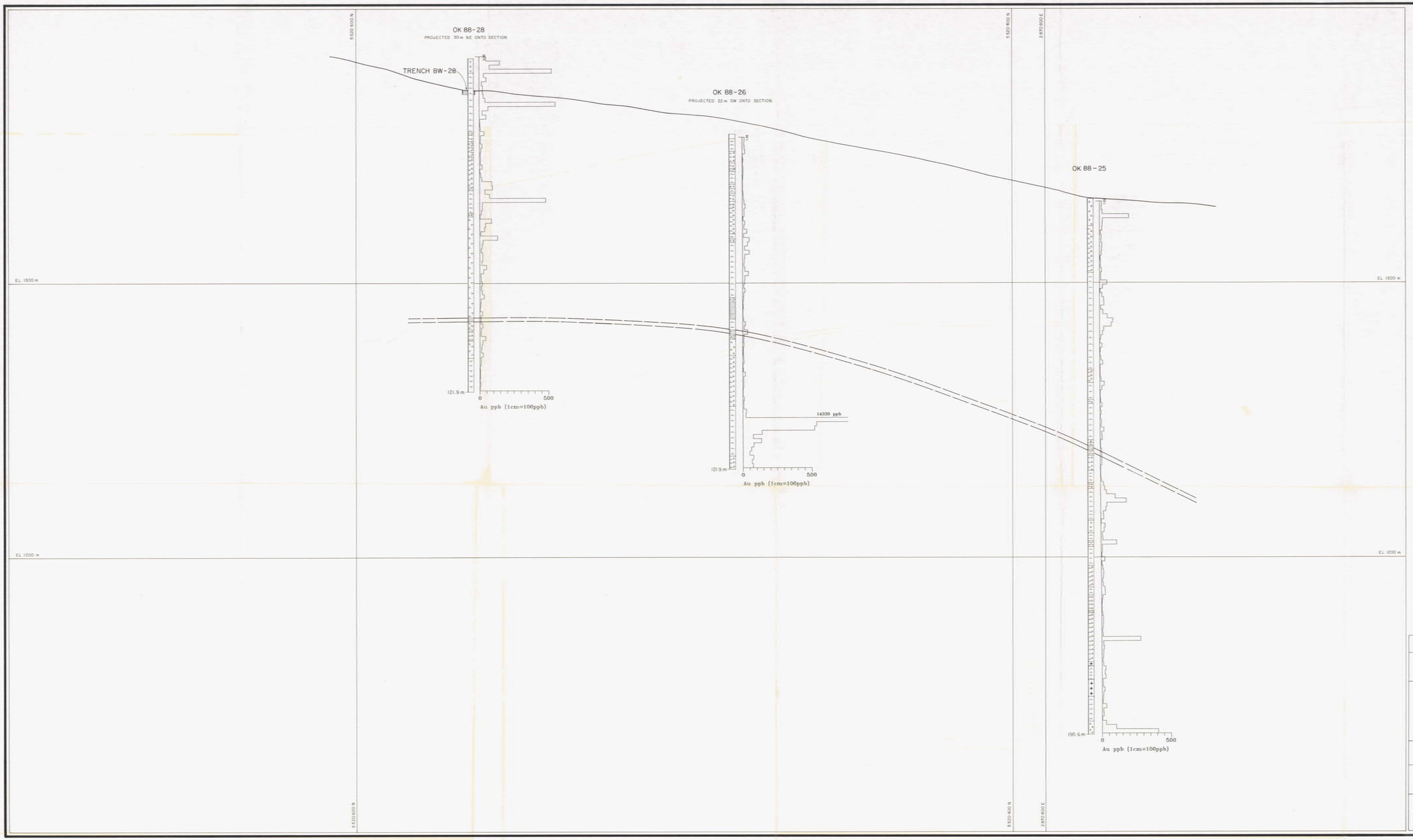
Scale = 1:500

meters 0 5 10 15 20 25 30 35 40 45 50 metres

CORDILLERAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

SEPTEMBER 1988

PLATE II



LITHOLOGY

TERTIARY

FELDSPAR PORPHYRY; dykes of granitic(?) composition which may be related to the Coryell intrusions.

CRETACEOUS

NELSON PLUTONIC ROCKS

GRANODIORITE, medium to coarse grained, local moderate to strong quartz and sericite alteration occasionally bleached and containing fine red biotite (FGSB).

LOWER JURASSIC(?)

DIORITE DYKE or SILL; medium grained with local strong sericite alteration.

UPPER TRIASSIC

NICOLA GROUP

ANDESITE to BASALT; dark green, finely to coarsely crystalline with abundant feldspar and augite phenocrysts. Commonly chlorite altered.

CRYSTAL TUFF; fine grained, white to light grey siliceous matrix containing 10 to 40% .3 to 1.5 mm feldspar (?) crystals.

SILTSTONE; black, locally calcareous to lightly siliceous.

HORNFELS; black to medium grey to maroon, fine grained, siliceous.

FINE GRAINED SILICEOUS ROCK; bleached, very fine grained rock of undefined origin, possibly fine pyroclastic or bleached, silicified sediment. Noted in surface exposure interbedded with siltstone.

MEDIUM GRAINED SILICEOUS ROCK; bleached, .1 to .5 mm grain size, of undefined origin, possibly a fine pyroclastic or bleached silicified sediment.

SKARN; coarse grained, predominantly red brown garnet with pyroxene, local epidote, calcite and Wollastonite.

MARBLE; light to dark grey, abundant calcite veinlets.

MASSIVE SULFIDE; dominantly pyrite, pyrrhotite with minor chalcopyrite and sphalerite. Commonly contains 10 to 30% skarn.

NOTE:
SYMBOLS OF INTERBEDDED LITHOLOGIES ARE SUPERIMPOSED.

SYMBOLS

LITHOLOGICAL CONTACT
Known, Assumed

FAULT
Known, Assumed

FAIRFIELD MINERALS LTD.

OKA PROPERTY
BOLIVAR WEST AREA

REVERSE CIRCULATION DRILL SECTION B – B'

LOOKING NORTHEAST
SECTION AZIMUTH 150°

OSOYOOS MINING DIVISION, BRITISH COLUMBIA
NTS 82E/13W

Scale = 1:500

CORDILLERAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

SEPTEMBER 1988 W. Johnson PLATE 12

288 800 E

OK 88 - 31

TRENCH BE-22

0.062 oz/t Au
2.0 m

3380 ppb

EL 1300 m

EL 1300 m

EL 1200 m

EL 1200 m

172.2 m

0 500

Au ppb (1cm=100ppb)

288 800 E

LITHOLOGY

TERTIARY

FELDSPAR PORPHYRY; dykes of granitic (?) composition which may be related to the Coryell intrusions.

CRETACEOUS

NELSON PLUTONIC ROCKS

GRANODIORITE; medium to coarse grained, local moderate to strong quartz and sericite alteration occasionally bleached and containing fine red biotite (FGSB).

LOWER JURASSIC (?)

DIORITE DYKE or SILL; medium grained with local strong sericite alteration.

UPPER TRIASSIC

NICOLA GROUP

ANDESITE to BASALT; dark green, finely to coarsely crystalline with abundant feldspar and augite phenocrysts. Commonly chlorite altered.

CRYSTAL TUFF; fine grained, white to light grey siliceous matrix containing 10 to 40% .3 to 1.5 mm feldspar (?) crystals.

SILTSTONE; black, locally calcareous to lightly siliceous.

HORNFELS; black to medium grey to maroon, fine grained, siliceous.

FINE GRAINED SILICEOUS ROCK; bleached, very fine grained rock of undefined origin, possibly fine pyroclasts or bleached, silicified sediment. Noted in surface exposure interbedded with siltstone.

MEDIUM GRAINED SILICEOUS ROCK; bleached, .1 to .5mm grain size, of undefined origin, possibly a fine pyroclastic or bleached silicified sediment.

SKARN; coarse grained, predominantly red brown garnet with pyroxene, local epidote, calcite and Wollastonite.

MARBLE; light to dark grey, abundant calcite veinlets.

MASSIVE SULFIDE; dominantly pyrite, pyrrhotite with minor chalcopyrite and sphalerite. Commonly contains 10 to 30% skarn.

NOTE:
SYMBOLS OF INTERBEDDED LITHOLOGIES ARE SUPERIMPOSED.

SYMBOLS

LITHOLOGICAL CONTACT
Known, Assumed

FAULT
Known, Assumed

FAIRFIELD MINERALS LTD.

OKA PROPERTY
BOLIVAR EAST AREA

REVERSE CIRCULATION DRILL SECTION 520 622 N

LOOKING NORTH
SECTION AZIMUTH 090°

OSOYOOS MINING DIVISION, BRITISH COLUMBIA
NTS 82E/13W

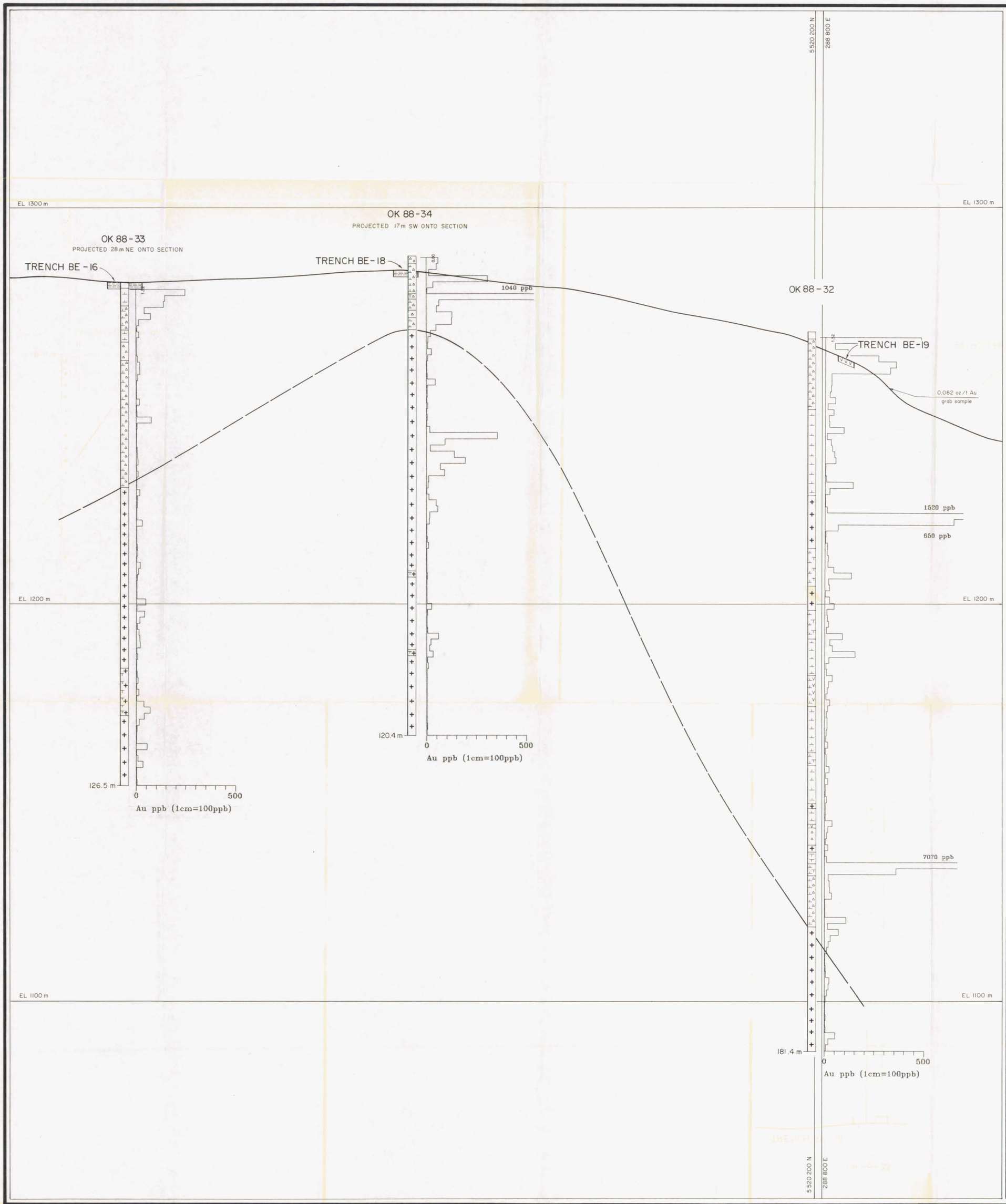
Scale = 1:500

meters 0 5 10 15 20 25 30 35 40 45 50 metres

CORDILLERAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

SEPTEMBER 1988 W. Johnson

PLATE 13



LITHOLOGY

TERTIARY

FELDSPAR PORPHYRY; dykes of granitic (?) composition which may be related to the Coryell intrusions.

CRETACEOUS

NELSON PLUTONIC ROCKS

GRANODIORITE; medium to coarse grained, local moderate to strong quartz and sericite alteration occasionally bleached and containing fine red biotite (FGSB).

LOWER JURASSIC (?)

DIORITE DYKE or SILL; medium grained with local strong sericite alteration.

UPPER TRIASSIC

NICOLA GROUP

ANDESITE to BASALT; dark green, finely to coarsely crystalline with abundant feldspar and augite phenocrysts. Commonly chlorite altered.

CRYSTAL TUFF; fine grained, white to light grey siliceous matrix containing 10 to 40% .3 to 1.5 mm feldspar (?) crystals.

SILTSTONE; black, locally calcareous to lightly siliceous.

HORNFELS; black to medium grey to maroon, fine grained, siliceous.

FINE GRAINED SILICEOUS ROCK; bleached, very fine grained rock of undefined origin, possibly fine pyroclasts or bleached, silicified sediment. Noted in surface exposure interbedded with siltstone.

MEDIUM GRAINED SILICEOUS ROCK; bleached, .1 to .5mm grain size, of undefined origin, possibly a fine pyroclastic or bleached silicified sediment.

SKARN; coarse grained, predominantly red brown garnet with pyroxene, local epidote, calcite and Wollastonite.

MARBLE; light to dark grey, abundant calcite veinlets.

MASSIVE SULFIDE; dominantly pyrite, pyrrhotite with minor chalcopyrite and sphalerite. Commonly contains 10 to 30% skarn.

NOTE:
SYMBOLS OF INTERBEDDED LITHOLOGIES ARE SUPERIMPOSED.

SYMBOLS

LITHOLOGICAL CONTACT
Known, Assumed

FAULT
Known, Assumed

FAIRFIELD MINERALS LTD.

OKA PROPERTY
BOLIVAR EAST AREA

REVERSE CIRCULATION DRILL SECTION C - C'

LOOKING NORTHEAST
SECTION AZIMUTH 136°

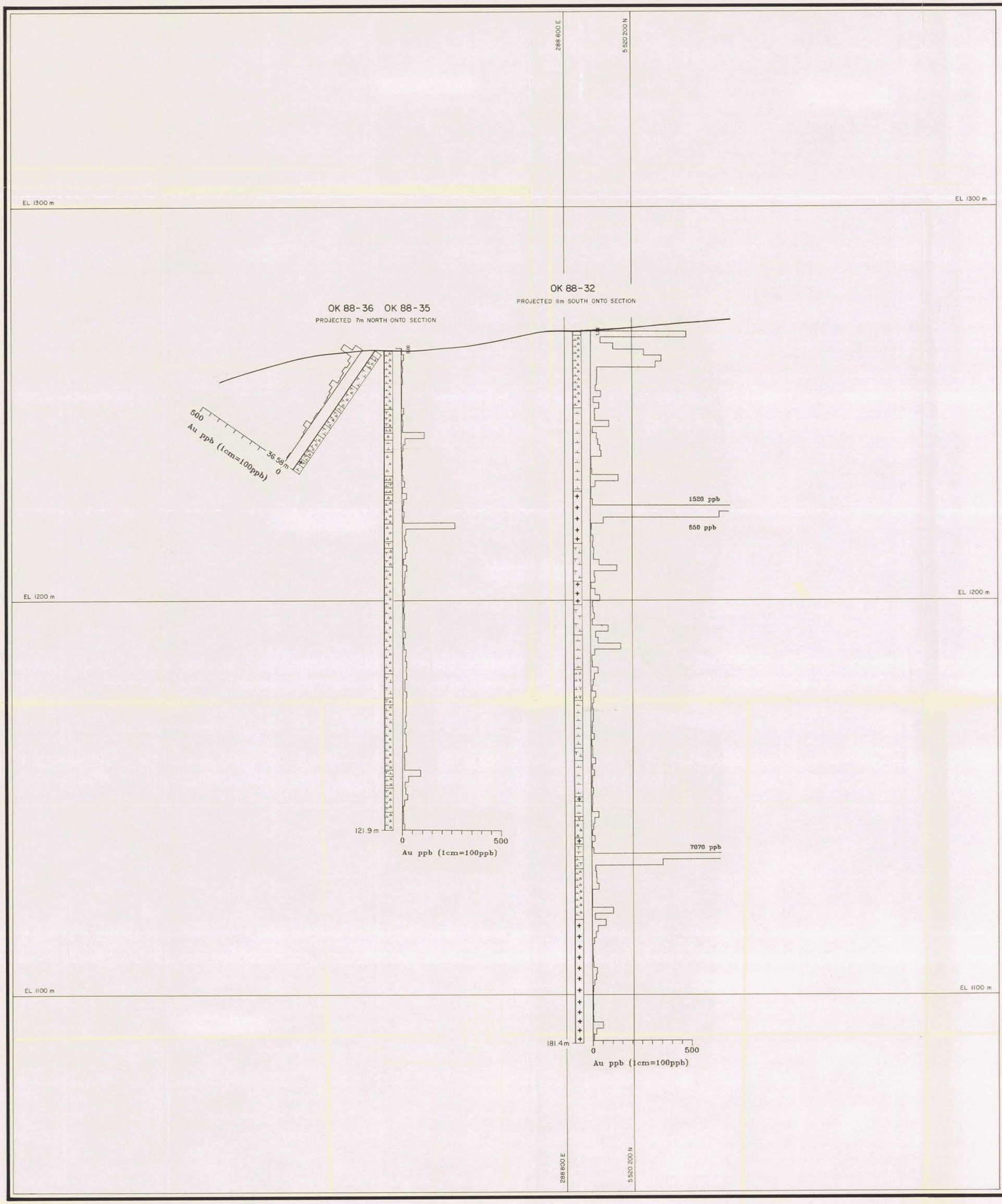
OSOYOOS MINING DIVISION, BRITISH COLUMBIA
NTS 82E/13W

Scale = 1:500

meters 0 5 10 15 20 25 30 35 40 45 50 metres

CORDILLERAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

SEPTEMBER 1988 W. Jakubowski PLATE 14



LITHOLOGY

TERTIARY

FELDSPAR PORPHYRY; dykes of granitic(?) composition which may be related to the Coryell intrusions.

CRETACEOUS

NELSON PLUTONIC ROCKS

GRANODIORITE; medium to coarse grained, local moderate to strong quartz and sericite alteration occasionally bleached and containing fine red biotite (FGSB).

LOWER JURASSIC (?)

DIORITE DYKE or SILL; medium grained with local strong sericite alteration.

UPPER TRIASSIC

NICOLA GROUP

ANDESITE to BASALT; dark green, finely to coarsely crystalline with abundant feldspar and augite phenocrysts. Commonly chlorite altered.

CRYSTAL TUFF, fine grained, white to light grey siliceous matrix containing 10 to 40% .3 to 1.5 mm feldspar (?) crystals.

SILTSTONE; black, locally calcareous to lightly siliceous.

HORNFELS; black to medium grey to maroon, fine grained, siliceous.

FINE GRAINED SILICEOUS ROCK; bleached, very fine grained rock of undefined origin, possibly fine pyroclasts or bleached, silicified sediment. Noted in surface exposure interbedded with siltstone.

MEDIUM GRAINED SILICEOUS ROCK; bleached, .1 to .5 mm grain size, of undefined origin, possibly a fine pyroclastic or bleached silicified sediment.

SKARN; coarse grained, predominantly red brown garnet with pyroxene, local epidote, calcite and Wollastonite.

MARBLE; light to dark grey, abundant calcite veinlets.

MASSIVE SULFIDE; dominantly pyrite, pyrrhotite with minor chalcopyrite and sphalerite. Commonly contains 10 to 30% skarn.

NOTE:
SYMBOLS OF INTERBEDDED LITHOLOGIES ARE SUPERIMPOSED.

SYMBOLS

LITHOLOGICAL CONTACT
Known, Assumed

FAULT
Known, Assumed

FAIRFIELD MINERALS LTD.

OKA PROPERTY
BOLIVAR EAST AREA

REVERSE CIRCULATION DRILL SECTION D – D'

LOOKING NORTH-NORTHWEST
SECTION AZIMUTH 250°

OSOYOOS MINING DIVISION, BRITISH COLUMBIA
NTS 82E/13W

Scale = 1:500

meters 0 5 10 15 20 25 30 35 40 45 50 metres

CORDILLERAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

SEPTEMBER 1988 W.J. Kalbfleisch PLATE 15

290 800 E

OK 88-40

EL 1200 m

EL 1100 m

182.9m

0 500

Au ppb (1cm=100ppb)

290 800 E

LITHOLOGY

TERTIARY

FELDSPAR PORPHYRY; dykes of granitic (?) composition which may be related to the Coryell intrusions.

CRETACEOUS

NELSON PLUTONIC ROCKS

GRANODIORITE; medium to coarse grained, local moderate to strong quartz and sericite alteration occasionally bleached and containing fine red biotite (FGSB).

LOWER JURASSIC (?)

DIORITE DYKE or SILL; medium grained with local strong sericite alteration.

UPPER TRIASSIC

NICOLA GROUP

ANDESITE to BASALT; dark green, finely to coarsely crystalline with abundant feldspar and augite phenacrysts. Commonly chlorite altered.

CRYSTAL TUFF; fine grained, white to light grey siliceous matrix containing 10 to 40% .3 to 1.5 mm feldspar (?) crystals.

SILTSTONE; black, locally calcareous to lightly siliceous.

HORNFELS; black to medium grey to maroon, fine grained, siliceous.

FINE GRAINED SILICEOUS ROCK; bleached, very fine grained rock of undefined origin, possibly fine pyroclasts or bleached, silicified sediment. Noted in surface exposure interbedded with siltstone.

MEDIUM GRAINED SILICEOUS ROCK; bleached, .1 to .5mm grain size, of undefined origin, possibly a fine pyroclastic or bleached silicified sediment.

SKARN; coarse grained, predominantly red brown garnet with pyroxene, local epidote, calcite and Wollastonite.

MARBLE; light to dark grey, abundant calcite veinlets.

MASSIVE SULFIDE, dominantly pyrite, pyrrhotite with minor chalcopyrite and sphalerite. Commonly contains 10 to 30% skarn.

NOTE:
SYMBOLS OF INTERBEDDED LITHOLOGIES ARE SUPERIMPOSED.

SYMBOLS

LITHOLOGICAL CONTACT
Known, Assumed

FAULT
Known, Assumed

FAIRFIELD MINERALS LTD.

OKA PROPERTY
BOLIVAR ROAD AREA

REVERSE CIRCULATION DRILL SECTION 520 683 N

LOOKING NORTH
SECTION AZIMUTH 090°

OSOYOOS MINING DIVISION, BRITISH COLUMBIA
NTS 82E/13W

Scale = 1:500

meters 0 5 10 15 20 25 30 35 40 45 50 metres

CORDILLERAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

SEPTEMBER 1988 W. Johnson

PLATE 16

290 300 E

290 400 E

520 600 N

OK 88-39

OK 88-38

OK 88-37A OK 88 - 37

EL 1300 m

EL 1200 m

EL 1100 m

760 ppb

2032 ppb

30.5 m

0 500

Au ppb (1cm=100ppb)

146.3 m

500 0

Au ppb (1cm=100ppb)

182.9 m

0 500

Au ppb (1cm=100ppb)

152.4 m

500 0

Au ppb (1cm=100ppb)

LITHOLOGY

TERTIARY

FELDSPAR PORPHYRY; dykes of granitic(?) composition which may be related to the Coryell intrusions.

CRETACEOUS

NELSON PLUTONIC ROCKS

GRANODIORITE; medium to coarse grained, local moderate to strong quartz and sericite alteration occasionally bleached and containing fine red biotite (FGSB).

LOWER JURASSIC (?)

DIORITE DYKE or SILL; medium grained with local strong sericite alteration.

UPPER TRIASSIC

NICOLA GROUP

ANDESITE to BASALT; dark green, finely to coarsely crystalline with abundant feldspar and augite phenocrysts. Commonly chlorite altered.

CRYSTAL TUFF; fine grained, white to light grey siliceous matrix containing 10 to 40% .3 to 1.5 mm feldspar (?) crystals.

SILTSTONE; black, locally calcareous to lightly siliceous.

HORNFELS; black to medium grey to maroon, fine grained, siliceous.

FINE GRAINED SILICEOUS ROCK; bleached, very fine grained rock of undefined origin, possibly fine pyroclasts or bleached, silicified sediment. Noted in surface exposure interbedded with siltstone.

MEDIUM GRAINED SILICEOUS ROCK; bleached, .1 to .5mm grain size, of undefined origin, possibly a fine pyroclastic or bleached silicified sediment.

SKARN; coarse grained, predominantly red brown garnet with pyroxene, local epidote, calcite and Wollastonite.

MARBLE; light to dark grey, abundant calcite veinlets.

MASSIVE SULFIDE; dominantly pyrite, pyrrhotite with minor chalcopyrite and sphalerite. Commonly contains 10 to 30% skarn.

NOTE:
SYMBOLS OF INTERBEDDED LITHOLOGIES ARE SUPERIMPOSED.

SYMBOLS

LITHOLOGICAL CONTACT
Known, Assumed

FAULT
Known, Assumed

FAIRFIELD MINERALS LTD.

OKA PROPERTY
BOLIVAR ROAD AREA

REVERSE CIRCULATION DRILL SECTION A – A'

LOOKING NORTHWEST
SECTION AZIMUTH 56°

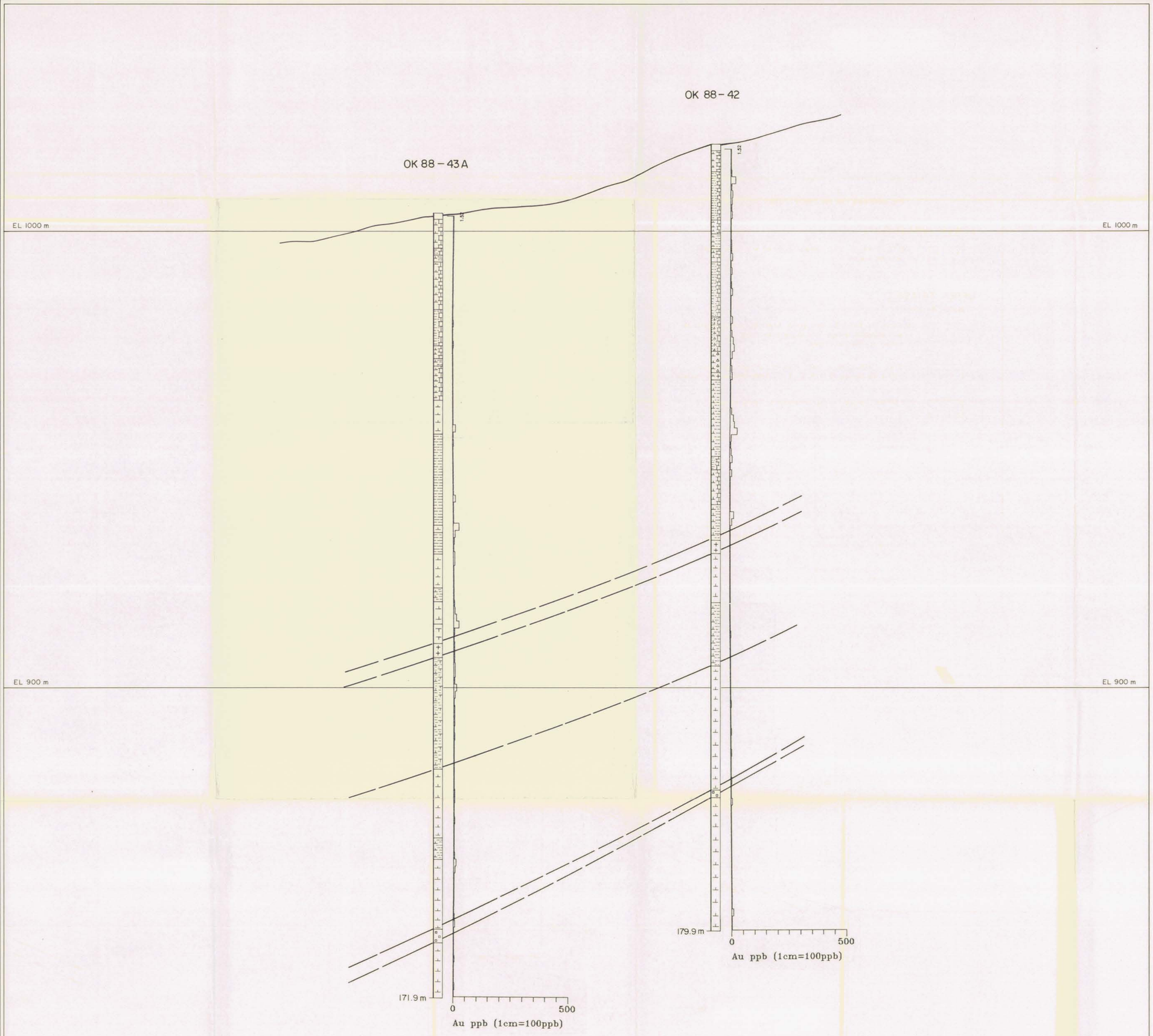
OSOYOOS MINING DIVISION, BRITISH COLUMBIA
NTS 82E/13W

Scale = 1:500

meters 0 5 10 15 20 25 30 35 40 45 50 metres

CORDILLERAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

SEPTEMBER 1988 W. Johnson PLATE 17



LITHOLOGY

TERTIARY

FELDSPAR PORPHYRY; dykes of granitic(?) composition which may be related to the Coryell intrusions.

CRETACEOUS

NELSON PLUTONIC ROCKS

GRANODIORITE; medium to coarse grained, local moderate to strong quartz and sericite alteration occasionally bleached and containing fine red biotite (FGSB).

LOWER JURASSIC (?)

DIORITE DYKE or SILL; medium grained with local strong sericite alteration.

UPPER TRIASSIC

NICOLA GROUP

ANDESITE to BASALT; dark green, finely to coarsely crystalline with abundant feldspar and augite phenocrysts. Commonly chlorite altered.

CRYSTAL TUFF; fine grained, white to light grey siliceous matrix containing 10 to 40% .3 to 1.5 mm feldspar (?) crystals.

SILTSTONE; black, locally calcareous to lightly siliceous.

HORNFELS; black to medium grey to maroon, fine grained, siliceous.

FINE GRAINED SILICEOUS ROCK; bleached, very fine grained rock of undefined origin, possibly fine pyroclasts or bleached, silicified sediment. Noted in surface exposure interbedded with siltstone.

MEDIUM GRAINED SILICEOUS ROCK; bleached, .1 to .5mm grain size, of undefined origin, possibly a fine pyroclastic or bleached silicified sediment.

SKARN; coarse grained, predominantly red brown garnet with pyroxene, local epidote, calcite and Wollastonite.

MARBLE; light to dark grey, abundant calcite veinlets.

MASSIVE SULFIDE; dominantly pyrite, pyrrhotite with minor chalcopyrite and sphalerite. Commonly contains 10 to 30% skarn.

NOTE:
SYMBOLS OF INTERBEDDED LITHOLOGIES ARE SUPERIMPOSED.

SYMBOLS

LITHOLOGICAL CONTACT
Known, Assumed

FAULT
Known, Assumed

FAIRFIELD MINERALS LTD.

OKA PROPERTY
CAP AREA

REVERSE CIRCULATION DRILL SECTION A - A'

LOOKING WEST-NORTHWEST
SECTION AZIMUTH 030°

OSOYOOS MINING DIVISION, BRITISH COLUMBIA
NTS 82E/13W

Scale = 1:500

meters 0 5 10 15 20 25 30 35 40 45 50 metres

CORDILLERAN ENGINEERING LTD.
1980-1055 W. HASTINGS STREET
VANCOUVER, B.C. V6E 2E9

SEPTEMBER 1988 W. Johnstone PLATE 18