

GEOLOGICAL SURVEY BRANCH ASSESSMENT REPORTS
DATE RECEIVED APR 03 1996

**1995 DIAMOND DRILLING REPORT**

**SIWASH GOLD MINE AREA, ELK PROPERTY**

Similkameen Mining Division, B. C.  
Siwash Lake Area, British Columbia  
NTS: 92H-16W; Lat. 49°50'N; Long. 120°19'W

February, 1996

**VOLUME V: PLATES 46 - 68**

This report consists of seven volumes:

- Volume I: Text, Tables & Figures
- Volume II: Plates 1 - 15
- Volume III: Plates 16 - 30
- Volume IV: Plates 31 - 45
- Volume V: Plates 46 - 68
- Volume VI: Appendices A & B
- Volume VII: Appendix C

By

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&

Paul Controy, B.Sc., P. Geo.

**FILMED**

**GEOLOGICAL SURVEY BRANCH**  
1980 - 1055 West Hastings Street  
Vancouver, B.C. V6E 2E9  
**ASSESSMENT REPORT**

**24,374**

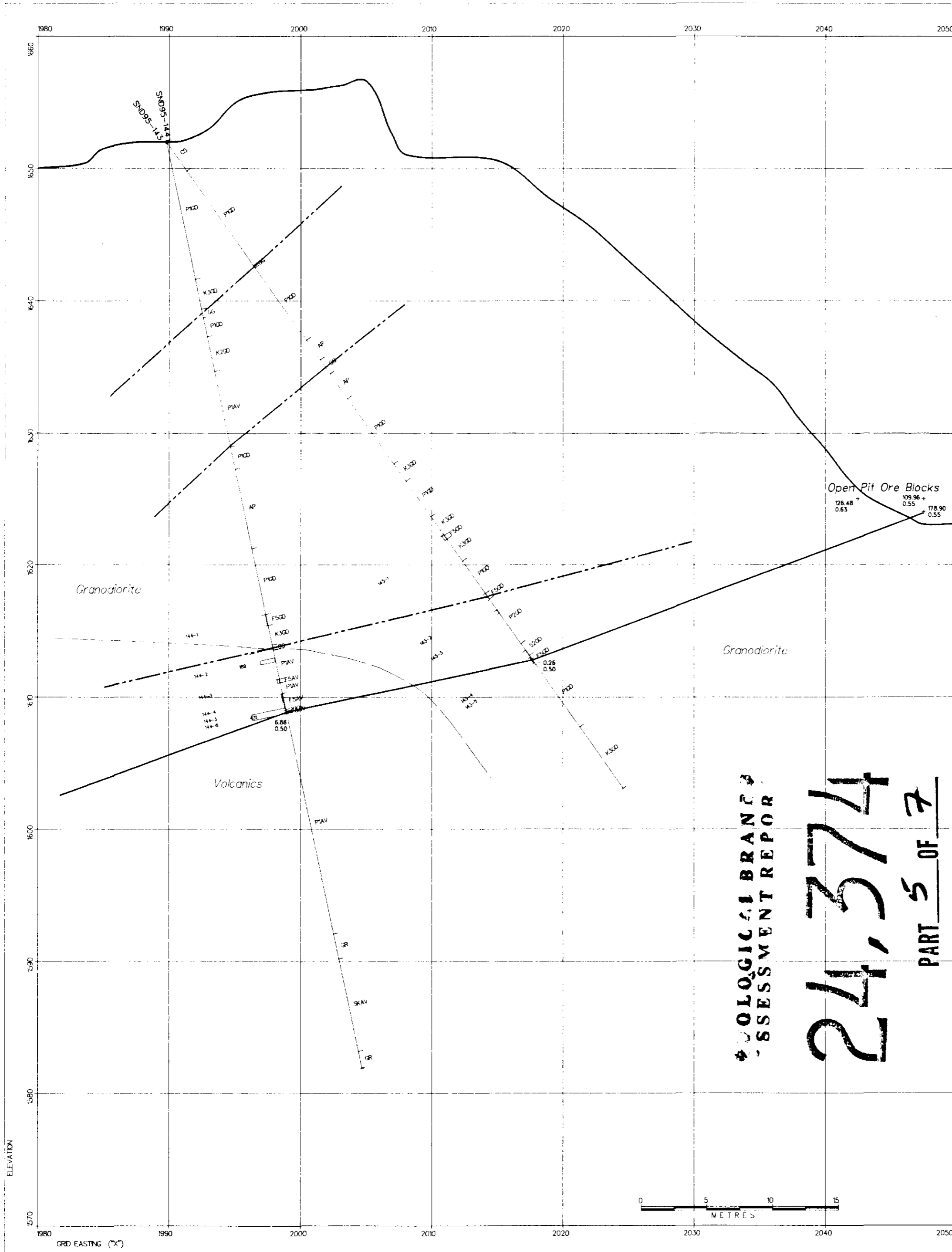
PART 5 OF 7

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**LEGEND**

**LITHOLOGY**

- CS CASING
  - M MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive green, fine-grained to weakly porphyritic
  - BR BRECCIA fragmented rock in a clay or clay-chlorite rich matrix, commonly grades into gouge
  - GG GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - QV QUARTZ VEIN white to grey quartz with some ankerite, commonly 10% to 20% pyrite with lesser chalcopyrite, pyrrhotite, sphalerite, galena, tetrahedrite, rare visible gold
- JURASSIC**
- OSPREY LAKE BATHOLITH
- AP APLITE pink to light grey, fine grained, saccharic, may grade into pegmatite
  - FP FELDSPAR PORPHYRY pink to red, medium fine-grained, k-spar rich
  - GC GRANODIORITE CHL. MARGIN medium to dark grey, fine grained up to 15% biotite or hornblende
  - GD GRANODIORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
  - GR GRANITE pink to pinkish grey, quartz - k-spar rich with some hornblende
  - PG PEGMATITE pink to light grey, very coarse grained to megacrystic, quartz - k-spar - muscovite rich
  - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained, engrafted with up to 15% biotite or hornblende
- TRASSIC**
- NICOLA GROUP VOLCANICS
- AV ANDESITIC VOLCANICS dark grey-green to near black, very fine-grained to aphanitic
  - (FV) FELSIC VOLCANIC as above, phenocrysts of plagioclase or hornblende to about 20%
  - (VB) VOLCANIC BRECCIA as above, brecciated (primary) with andesitic matrix, matrix rarely contains up to 25% pyrite - pyrrhotite - chalcopyrite

**ALTERATION CODES**

- |                           |                  |
|---------------------------|------------------|
| A(n) ARGILLIC             | P(n) PROPYLITIC  |
| F(n) PHYLIC               | S(n) SERPENTINIC |
| K(n) K-SPAR STABLE PHYLIC | SK SERPENTINIC   |
| K(n) POTASSIC             | S(n) SULFIDATION |
- (n = 1 TO 5, WEAK TO INTENSE)

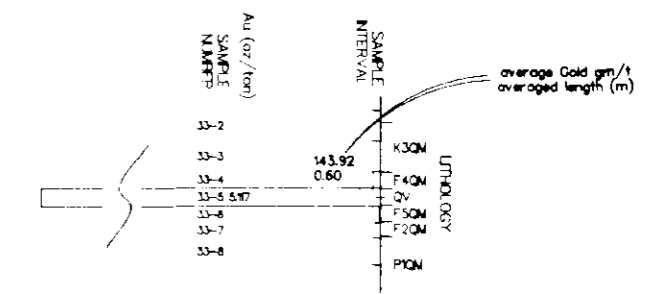
**SULFIDE CONTENT CODES (quartz veins)**

- Y1 less than 1% sulfide
- Y2 1% to 5% sulfide
- Y3 5% to 10% sulfide
- Y4 10% to 20% sulfide
- Y5 20% to 30% sulfide
- Y6 greater than 30% sulfide

**SYMBOLS**

- LITHOLOGIC CONTACT
- TRADE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones labeled on sections)
- FAULT OR SHEAR

**PLOT OF DRILL HOLE**



NOTE: GOLD ASSAYS AND AVERAGES < 0.05 oz/ton NOT POSTED

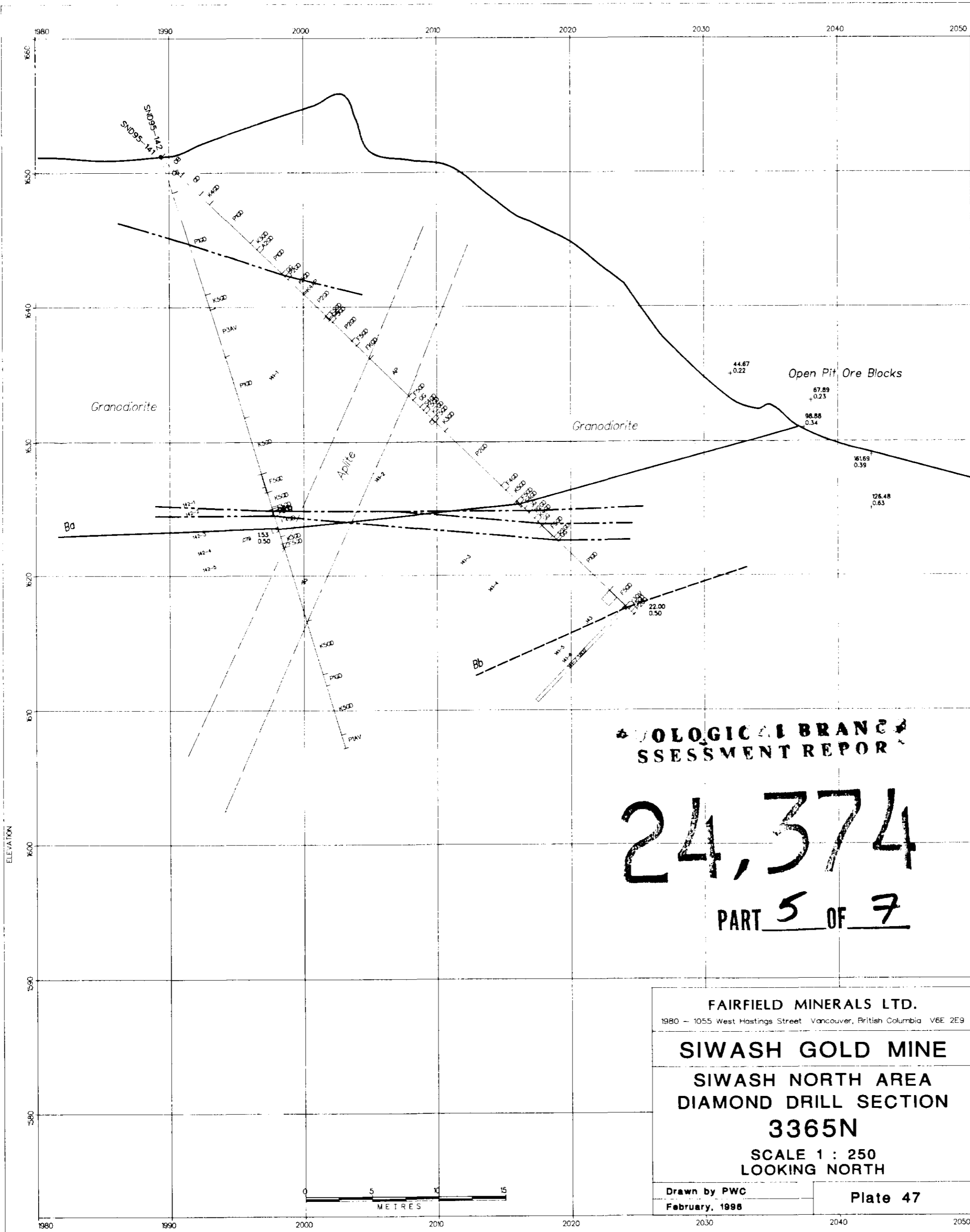
**LOGIC BRANCH ASSESSMENT REPORT**  
**24,374**  
**PART 5 OF 7**

**FAIRFIELD MINERALS LTD.**  
 1980 - 1055 West Hastings Street Vancouver, British Columbia V6E 2E9

**SIWASH GOLD MINE**  
**SIWASH NORTH AREA**  
**DIAMOND DRILL SECTION**  
**3357N**  
**SCALE 1 : 250**  
**LOOKING NORTH**

Drawn by PWC  
 February, 1998

Plate 46



**LEGEND**

**LITHOLOGY**

- CS CASING
  - M MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive green, fine-grained to weakly porphyritic
  - BR BRECCIA fragmented rock in a clay or clay-chlorite rich matrix, commonly grades into gouge
  - GG GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - QV QUARTZ VEIN white to grey quartz with some ankerite, commonly 10% to 20% pyrite with lesser chalcopyrite, pyrrhotite, sphalerite, galena, tetrahedrite, rare visible gold
- JURASSIC**
- OSPREY LAKE BATHOLITH**
- AP APLITE pink to light grey, fine grained, saccharic, may grade into pegmatite
  - FP FELDSPAR PORPHYRY pink to red, medium fine-grained, k-spar rich
  - GC GRANODIORITE CHILL MARGIN medium to dark grey, fine grained, up to 15% biotite or hornblende
  - GD GRANODIORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
  - GR GRANITE pink to pinkish grey, quartz - k-spar rich with some hornblende
  - PG PEGMATITE pink to light grey, very coarse grained to megacrystic, quartz - k-spar - muscovite rich
  - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained, euhedral with up to 15% biotite or hornblende
- TRASSIC**
- NICOLA GROUP VOLCANICS**
- AV ANDESITIC VOLCANICS dark grey-green to near black, very fine-grained to aphanitic
  - (PV) PLAGIOCLASE VOLCANIC as above, phenocrysts of plagioclase or hornblende to about 20%
  - (BV) VOLCANIC BRECCIA as above, brecciated (primary) with andesitic matrix, matrix rarely contains up to 25% pyrite - pyrrhotite - chalcopyrite

**ALTERATION CODES**

- A(n) ARGILLIC
  - P(n) PHYLIC
  - FX K-spar STABLE PHYLIC
  - K(n) POTASSIC
  - P(n) PROPYLITIC
  - S(n) SERPENTINIC
  - SK SKARN
  - X(n) SILICIFICATION
- (n = 1 TO 5, WEAK TO INTENSE)

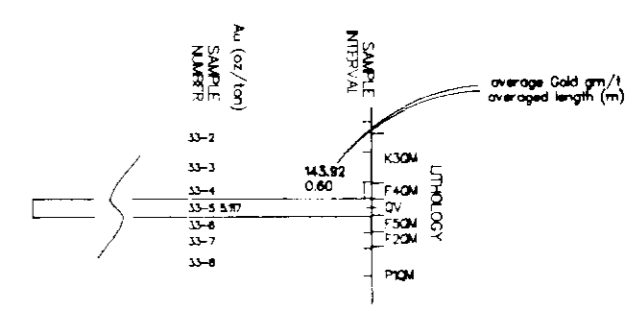
**SULFIDE CONTENT CODES (quartz veins)**

- Y1 less than 5% sulfide
- Y2 5% to 10% sulfide
- Y3 10 - 20% sulfide
- Y4 20 - 30% sulfide
- Y5 greater than 30% sulfide

**SYMBOLS**

- LITHOLOGIC CONTACT
- TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones labeled on sections)
- - - FAULT OR SHEAR

**PLOT OF DRILL HOLE**



NOTE: GOLD ASSAYS AND AVERAGES < 0.05 oz/ton NOT POSTED

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**24,374**  
PART 5 OF 7

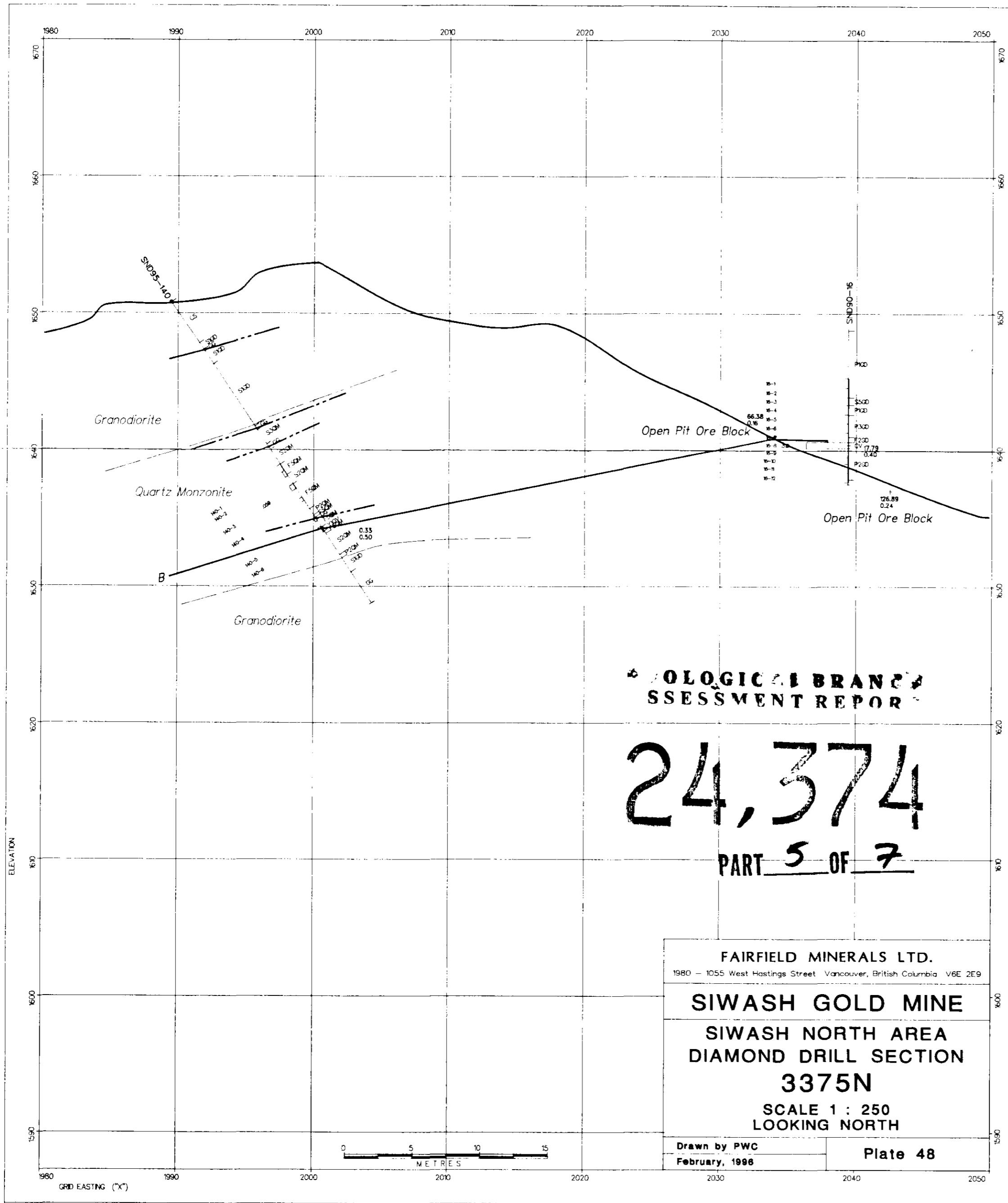
**FAIRFIELD MINERALS LTD.**  
1980 - 1055 West Hastings Street Vancouver, British Columbia V6E 2E9

**SIWASH GOLD MINE**  
**SIWASH NORTH AREA**  
**DIAMOND DRILL SECTION**  
**3365N**  
SCALE 1 : 250  
LOOKING NORTH

Drawn by PWC  
February, 1998

Plate 47





**LEGEND**

- LITHOLOGY**
- CS CASING
  - M MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive green, fine-grained to weakly porphyritic
  - BR BRECCIA fragmented rock in a clay or clay-chlorite rich matrix; commonly grades into gouge
  - GG GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - QV QUARTZ VEIN white to grey quartz with some ankerite; commonly 10% to 20% pyrite with lesser chalcopyrite, pyrrhotite, sphalerite, galena, tetrahedrite; rare visible gold
- JURASSIC**
- OSPREY LAKE BATHOLITH
- AP APLITE pink to light grey, fine grained, saccharic, may grade into pegmatite
  - FP FELDSPAR PORPHYRY pink to red, medium fine-grained, k-spar rich
  - GC GRANODIORITE CHILL MARGON medium to dark grey, fine grained up to 15% biotite or hornblende
  - GD GRANODIORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
  - GR GRANITE pink to pinkish grey, quartz - k-spar rich with some hornblende
  - PG PEGMATITE pink to light grey, very coarse grained to megacrystic; quartz - k-spar - muscovite rich
  - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS
- AV ANDESITIC VOLCANICS dark grey-green to near black, very fine-grained to aphanitic
  - (PV) PORPHYRYIC VOLCANIC as above; phenocrysts of plagioclase or hornblende to about 20%
  - (VB) VOLCANIC BRECCIA as above, brecciated (primary) with andesitic matrix, matrix rarely contains up to 25% pyrite - pyrrhotite - chalcopyrite

**ALTERATION CODES**

- |                            |                     |
|----------------------------|---------------------|
| A(n) APOLITE               | P(n) PROPYLITIC     |
| F(n) PHYLIC                | S(n) SERICITIC      |
| FX(n) K-SPAR STABLE PHYLIC | SK SKARN            |
| K(n) POTASSIC              | X(n) SILICIFICATION |
- (n = 1 TO 5, WEAK TO INTENSE)

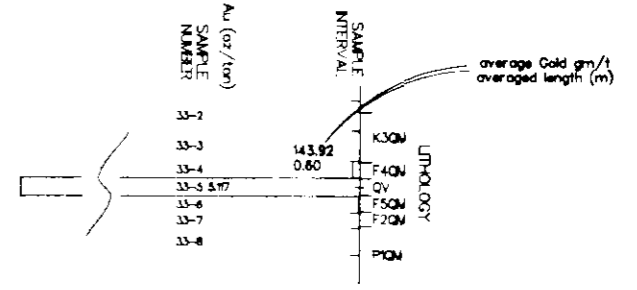
**SULFIDE CONTENT CODES (quartz veins)**

- |    |                          |
|----|--------------------------|
| Y1 | less than 1% sulfide     |
| Y2 | 1% to 5% sulfide         |
| Y3 | 5 - 10% sulfide          |
| Y4 | 10 - 20% sulfide         |
| Y5 | 20 - 30% sulfide         |
| Y6 | greater than 30% sulfide |

**SYMBOLS**

- LITHOLOGIC CONTACT
- TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones labeled on sections)
- - - FAULT OR SHEAR

**PLOT OF DRILL HOLE**



NOTE: GOLD ASSAYS AND AVERAGES < 0.05 oz./ton NOT POSTED

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**24,374**

**PART 5 OF 7**

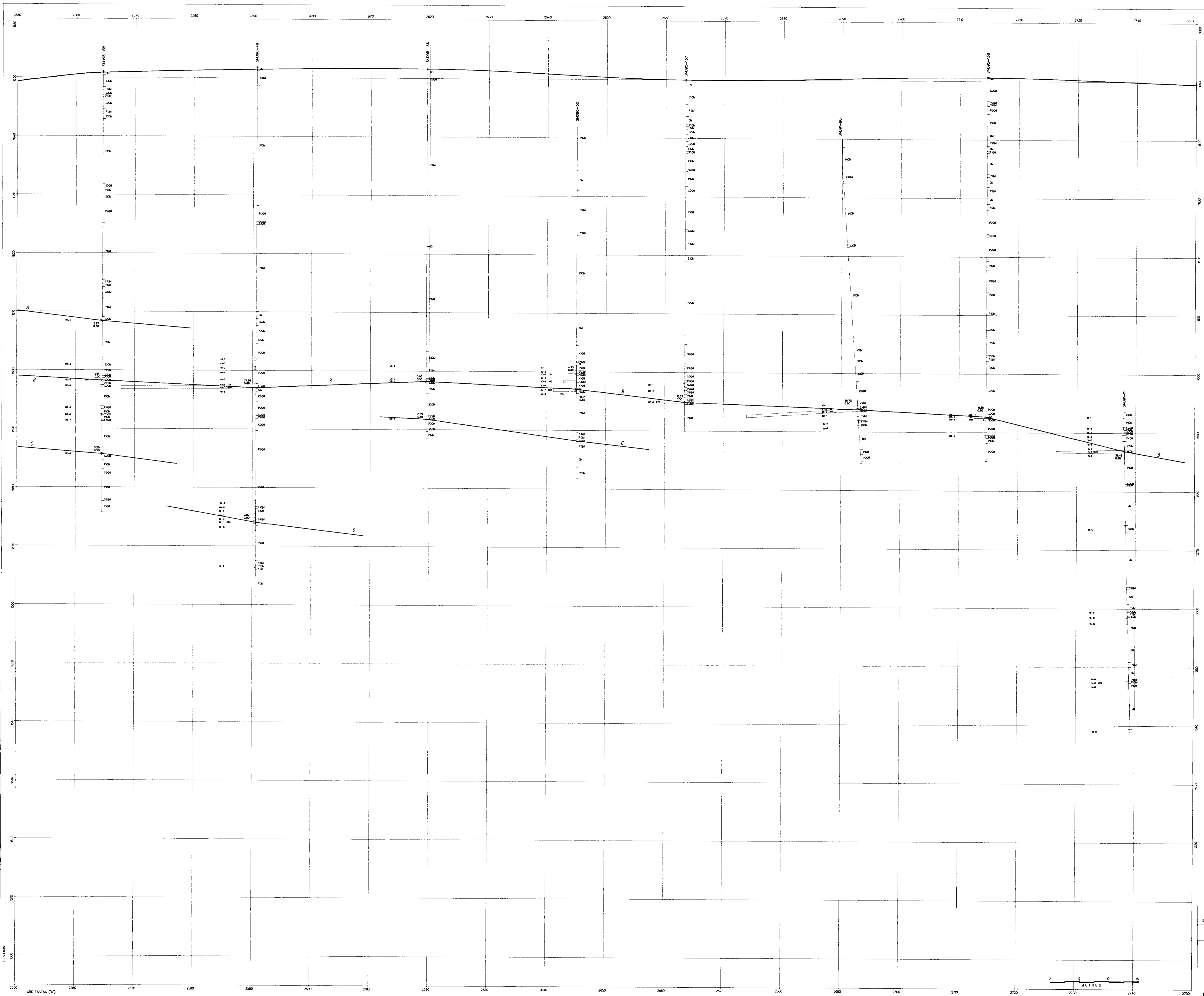
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1980 - 1055 West Hastings Street Vancouver, British Columbia V6E 2E9

**SIWASH GOLD MINE**  
**SIWASH NORTH AREA**  
**DIAMOND DRILL SECTION**  
**3375N**

SCALE 1 : 250  
LOOKING NORTH

Drawn by PWC  
February, 1998

Plate 48



- LEGEND**
- LITHOLOGY**
- CS CLARK
  - M MIDDLE LIME
  - OL OVERLOOK
- TERTIARY**
- AD ANDESITE DOME dark gray to black gray, fine grained to medium crystalline
  - BR BRECCIA fragmented rock in a clay or calcareous rich matrix commonly green and gray
  - GL GALE clay-rich with numerous rock fragments, shear foliation or bedding may be evident
  - QV QUARTZ VEIN vein of quartz with some hematite, commonly 1/2 to 1/4 inch wide, trace amounts of pyrite, arsenic, galena, hematite, iron sulfide
- JURASSIC**
- OSPREY LAKE BATHTUB**
- AP ALUTE ash to light gray, fine grained, may grade to argillaceous
  - FP FELDSPAR PORPHYRY ash to red, medium fine-grained to coarse rich
  - GC GRANODIORITE (CL. QUARTZ) medium to dark gray, fine grained up to 1/2 inch of hornblende
  - GD GRANODIORITE medium to dark gray, fine to medium grained up to 1/2 inch of hornblende
  - GR GRANITE ash to medium gray, quartz - 1/4 inch rich with some hornblende
  - PG PEGMATITE ash to light gray, very coarse grained to megacrystic, quartz - 1/4 inch - medium rich
  - QM QUARTZ MONZONITE light to medium gray, coarse grained, irregular with up to 1/2 inch of hornblende
- TRIASSIC**
- NOOLA GRAP VOLCANICS**
- AV ANDESITIC VOLCANICS ash gray-green to near black, very fine-grained to aphanitic
  - (V) ANDRESITIC VOLCANIC ash brown, greenish gray to reddish or brownish to black, fine grained
  - (M) VOLCANIC WELLS ash brown, fine grained (primary) with hematite, magnetite, pyrite, arsenic, galena, iron sulfide, iron sulfide, pyrite - hematite - chlorophyllite
- ALTERATION CODES**
- |    |            |    |           |
|----|------------|----|-----------|
| AN | ANDESITIC  | GR | GRANITIC  |
| AV | ANDRESITIC | MA | MAGNETIC  |
| FE | FELDSPAR   | PE | PEGMATITE |
| FM | FELDSPAR   | QU | QUARTZ    |
| PT | PHYLLITIC  | RY | RYOLITIC  |
| PO | POPHYRY    | SA | SAXOPHANE |
- (+ = 1 TO 4 METERS TO FUTURE)
- SULFIDE CONTENT CODES (quartz veins)**
- |   |                          |
|---|--------------------------|
| 0 | 0% Sulfide               |
| 1 | 1-5% Sulfide             |
| 2 | 5-10% Sulfide            |
| 3 | 10-20% Sulfide           |
| 4 | 20-30% Sulfide           |
| 5 | greater than 30% Sulfide |
- SYMBOLS**
- LITHOLOGICAL CONTACT
  - TRACE OF LATERAL STRUCTURE (See Notes after by hole, indicates shear (solid or dashed))
  - - - FAULT OF SHEAR
- PLOT OF DRILL HOLE**
- 
- NOTE: GOLD ASSAYS AND AVERAGES < 0.05 g/t are NOT POSTED**

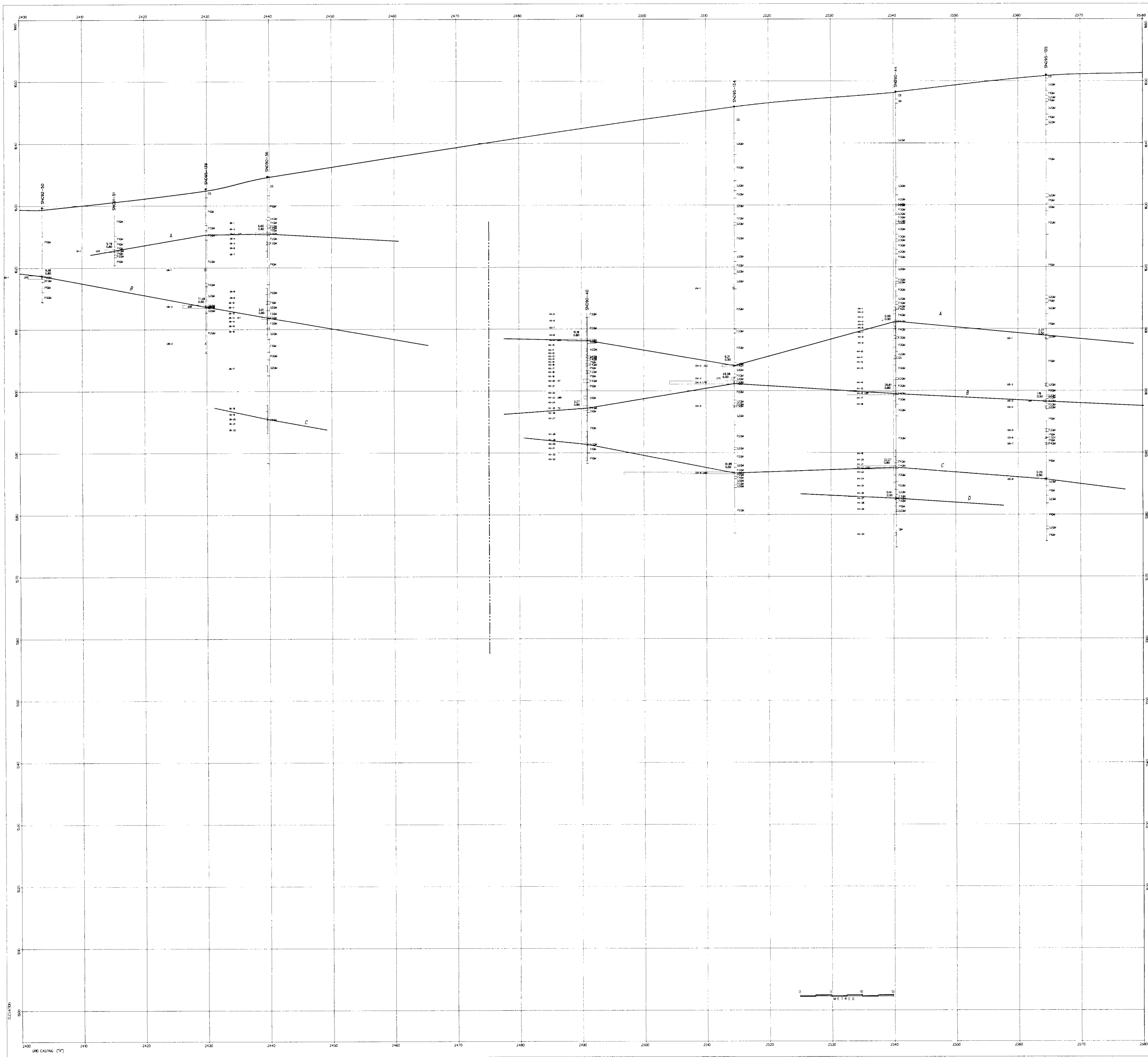
4 GEOLOGICAL BRANCH  
ASSESSMENT REPORT

24,374

FAIRFIELD MINERALS LTD.  
3280 - 1005 West Hastings Street, Vancouver, British Columbia V6E 2E9

**SIWASH GOLD MINE**  
SIWASH NORTH AREA  
DIAMOND DRILL SECTION  
3425N East Half  
SCALE 1 : 250  
LOOKING NORTH





- LEGEND**
- LITHOLOGY**
- TERTIARY**
- Q3 QWANG: fine grained to coarse grained, may be granitic to mafic gneiss
  - Q4 QWANG: medium to coarse grained, may be granitic to mafic gneiss
  - Q5 QWANG: coarse grained, may be granitic to mafic gneiss
  - Q6 QWANG: very coarse grained, may be granitic to mafic gneiss
  - Q7 QWANG: very coarse grained, may be granitic to mafic gneiss
- JURASSIC**
- JURASSIC LATE BATHOLITH**
- AP APATITE: fine to light grey, fine grained, aphanitic, may show porphyroblast
  - PG PERLITE: fine to medium grained, aphanitic, may show porphyroblast
  - GR GRANITE: fine to medium grained, aphanitic, may show porphyroblast
  - GS GRANITE: medium to coarse grained, aphanitic, may show porphyroblast
  - GR GRANITE: fine to medium grained, aphanitic, may show porphyroblast
  - PG PERLITE: fine to light grey, very coarse grained, may show porphyroblast
  - GM QUARTZ MONZONITE: light to medium grey, coarse grained, may show porphyroblast
- TRASSIC**
- NEOLA GROUP VOLCANICS**
- AV ANESTHETIC VOLCANIC: very fine to medium grained, may be basaltic or andesitic
- ALTERATION CODES**
- A1 ANESTHETIC: fine to medium grained, may be basaltic or andesitic
  - A2 ANESTHETIC: fine to medium grained, may be basaltic or andesitic
  - A3 ANESTHETIC: fine to medium grained, may be basaltic or andesitic
  - A4 ANESTHETIC: fine to medium grained, may be basaltic or andesitic
  - A5 ANESTHETIC: fine to medium grained, may be basaltic or andesitic
  - A6 ANESTHETIC: fine to medium grained, may be basaltic or andesitic
  - A7 ANESTHETIC: fine to medium grained, may be basaltic or andesitic
  - A8 ANESTHETIC: fine to medium grained, may be basaltic or andesitic
  - A9 ANESTHETIC: fine to medium grained, may be basaltic or andesitic
  - A10 ANESTHETIC: fine to medium grained, may be basaltic or andesitic
- SULFIDE CONTENT CODES (quartz veins)**
- 00: 0-10% sulfide
  - 01: 10-20% sulfide
  - 02: 20-30% sulfide
  - 03: 30-40% sulfide
  - 04: 40-50% sulfide
  - 05: 50-60% sulfide
  - 06: 60-70% sulfide
  - 07: 70-80% sulfide
  - 08: 80-90% sulfide
  - 09: 90-100% sulfide
- SYMBOLS**
- LITHOLOGICAL CONTACT
  - TRACE OF MINERALIZED STRUCTURE (see types after by time, include cores, veins, or fractures)
  - FAULT OR SHEAR
- PLOT OF DRILL HOLE**
- 
- NOTE: SOLID ASSAYS AND ANALYSES < 500 g/ton NOT POSTED



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**24,374**

**PART 5 OF 7**

**FAIRFIELD MINERALS LTD.**  
 1880 - 1005 West Hastings Street, Vancouver, British Columbia, V6E 2E9

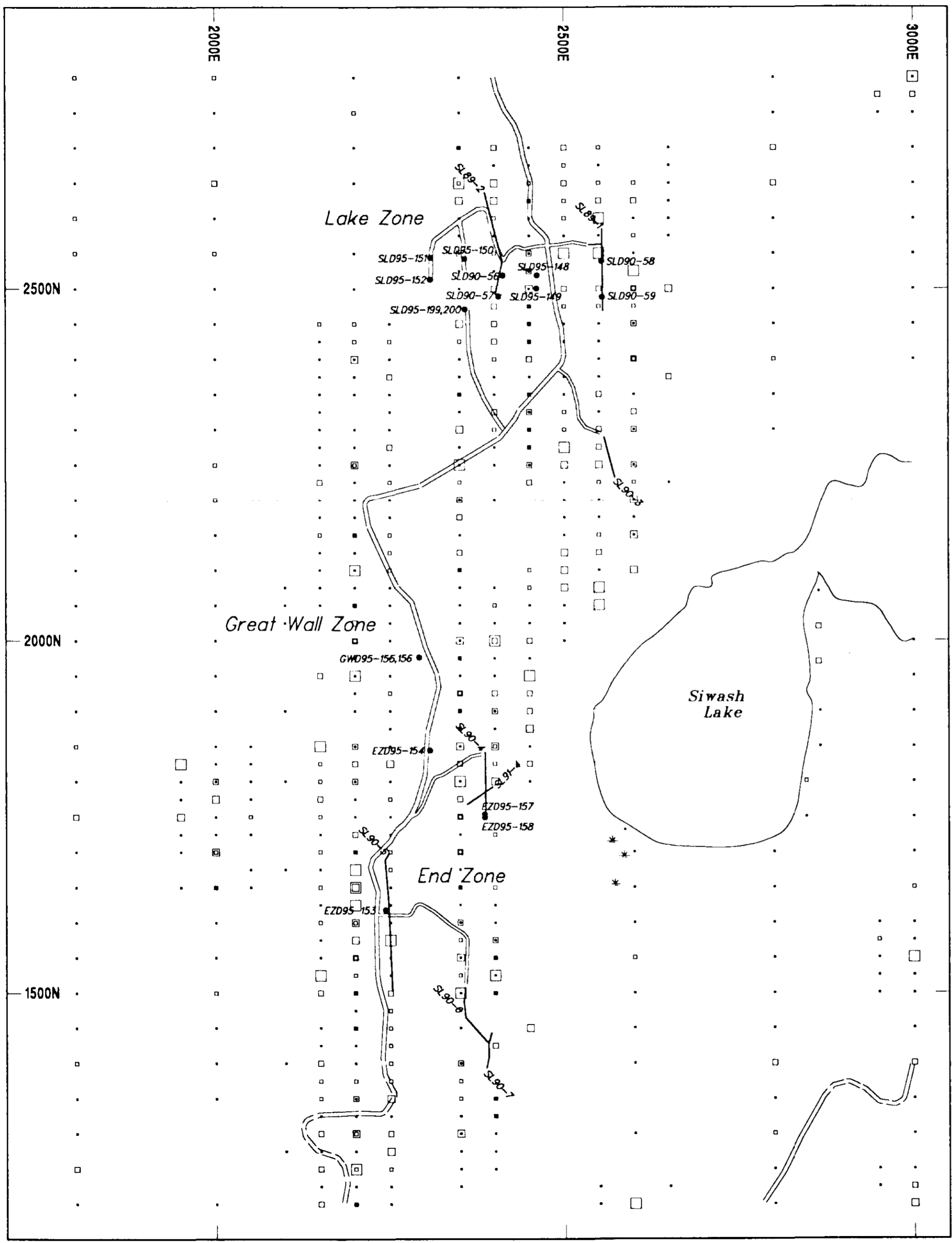
**SIWASH GOLD MINE**

**SIWASH NORTH AREA  
DIAMOND DRILL SECTION  
3425N West Half**

**SCALE 1 : 250  
LOOKING NORTH**

Drawn by PWD  
February, 1988

**Plate 50**



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**24,374**  
PART 5 OF 7

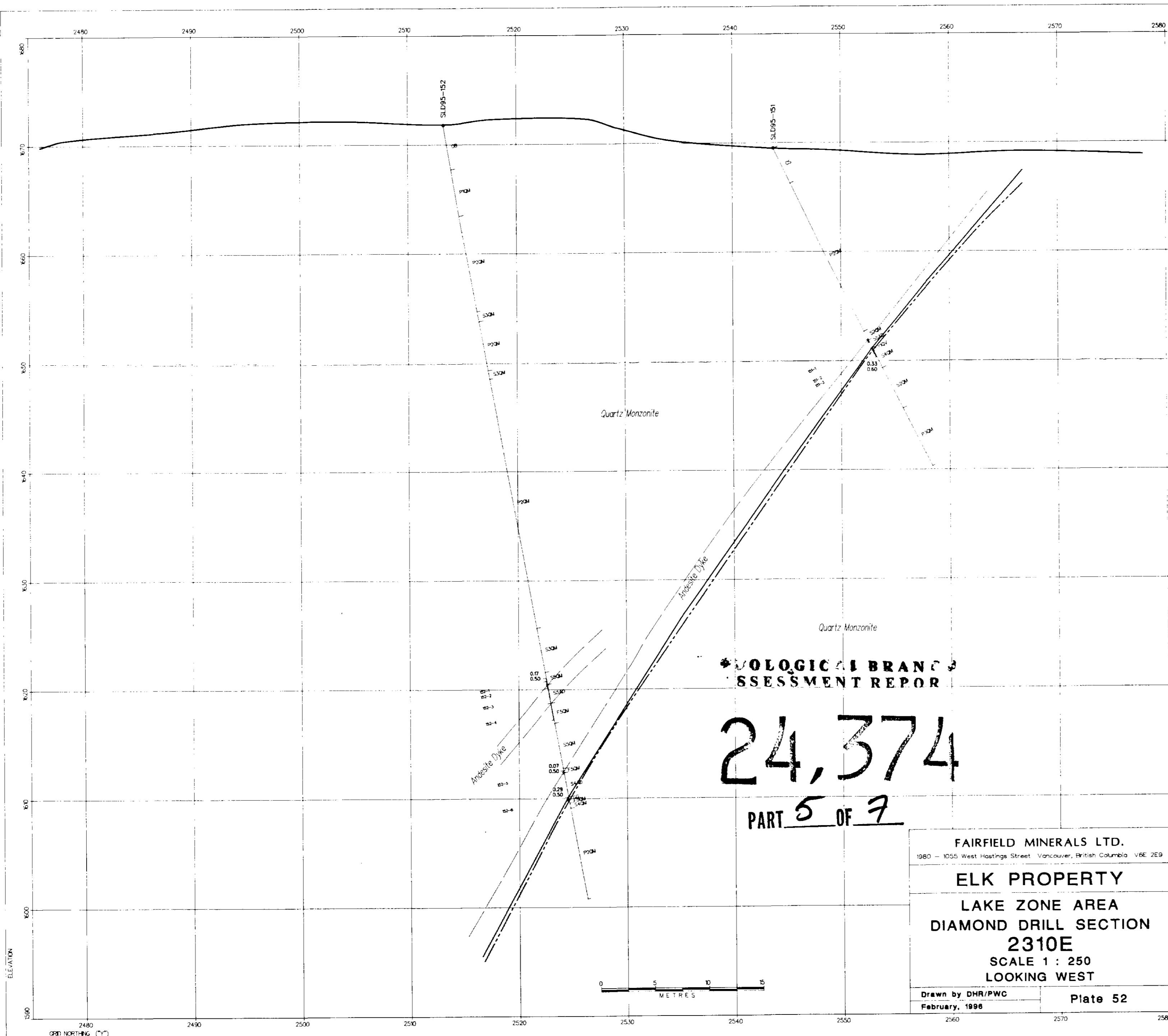
- KEY**
- Surface Trench & number
  - SSD95165 Diamond Drill Hole & number

- SOIL SAMPLE LOCATIONS**
- Less than 10ppb Gold in soil
  - ◻ 10ppb - 49ppb Gold
  - ◻ 50ppb to 99ppb Gold
  - ◻ Greater than 99 ppb Gold in soil



<b>ELK PROPERTY</b>	
Simikameen Mining Division NTS 92H/16W, B.C.	
<b>SIWASH LAKE AREA COMPILATION MAP</b>	
SCALE 1 : 5,000	
Drawn by WJ Feb., 1996	Plate 51
<b>FAIRFIELD MINERALS LTD.</b> 1980 - 1055 West Hastings Street Vancouver, British Columbia V6E 2E9	





### LEGEND

**LITHOLOGY**

CS CASING  
M MISSING CORE  
OB OVERBURDEN

**TERTIARY**

AD ANDESITE DYKE dark greyish-green to olive green, fine-grained to weakly porphyritic  
BR BRECCIA fragmented rock in a clay or clay-chlorite rich matrix, commonly grades into gouge  
GO GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident  
QV QUARTZ VEIN white to gray quartz with some ankerite, commonly 10% to 20% pyrite with lesser chalcopyrite, pyrrhotite, sphalerite, galena, tetrahedrite, rare visible gold

**JURASSIC**

OSPREY LAKE BATHOLITH

AP APLITE pink to light grey, fine grained, sucroic, may grade into pegmatite  
FP FELDSPAR PORPHYRY pink to red, medium fine-grained, k-spar rich  
GC GRANODIORITE CHILL MARGIN medium to dark grey, fine grained, up to 15% biotite or hornblende  
GD GRANODIORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende  
GR GRANITE pink to pinkish grey, quartz - k-spar rich with some hornblende  
PG PEGMATITE pink to light grey, very coarse grained to megacrystic, quartz - k-spar - muscovite rich  
QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende

**TRASSIC**

MOCLA GROUP VOLCANICS

AV ANDESITIC VOLCANICS dark grey-green to near black, very fine-grained to aphanitic  
(PV) PLAGIOCLASTIC VOLCANIC as above, phenocrysts of plagioclase or hornblende to about 20%  
(VB) VOLCANIC BRECCIA as above, brecciated (primary) with andesitic matrix, matrix rarely contains up to 25% pyrite - pyrrhotite - chalcopyrite

**ALTERATION CODES**

A(n) ARILLIC	P(n) PROPYLITIC
F(n) FAYALITIC	S(n) SERPENTINIC
PK(n) K-SPAR STABLE PHYLIC	SK(n) SKARN
K(n) POTASSIC	X(n) SILICIFICATION

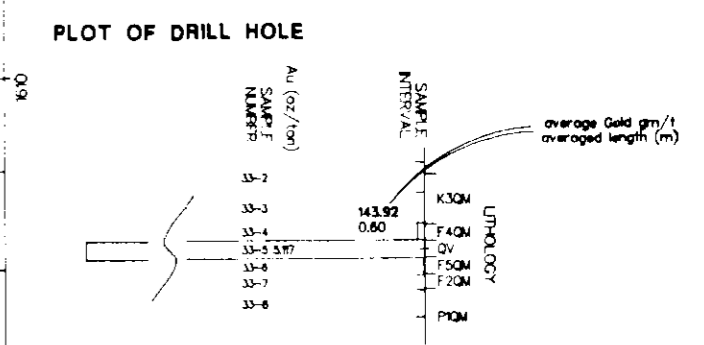
(n = 1 to 5, WEAK TO INTENSE)

**SULFIDE CONTENT CODES (quartz veins)**

Y1	less than 1% sulfide
Y2	1% to 5% sulfide
Y3	5 - 10% sulfide
Y4	10 - 20% sulfide
Y5	20 - 50% sulfide
Y6	greater than 50% sulfide

**SYMBOLS**

— LITHOLOGIC CONTACT  
— TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones labeled on sections)  
- - - FAULT OR SHEAR



NOTE: GOLD ASSAYS AND AVERAGES < 0.05 oz/ton NOT POSTED

MINERALOGICAL BRANCH  
ASSESSMENT REPORT

24,374

PART 5 OF 7

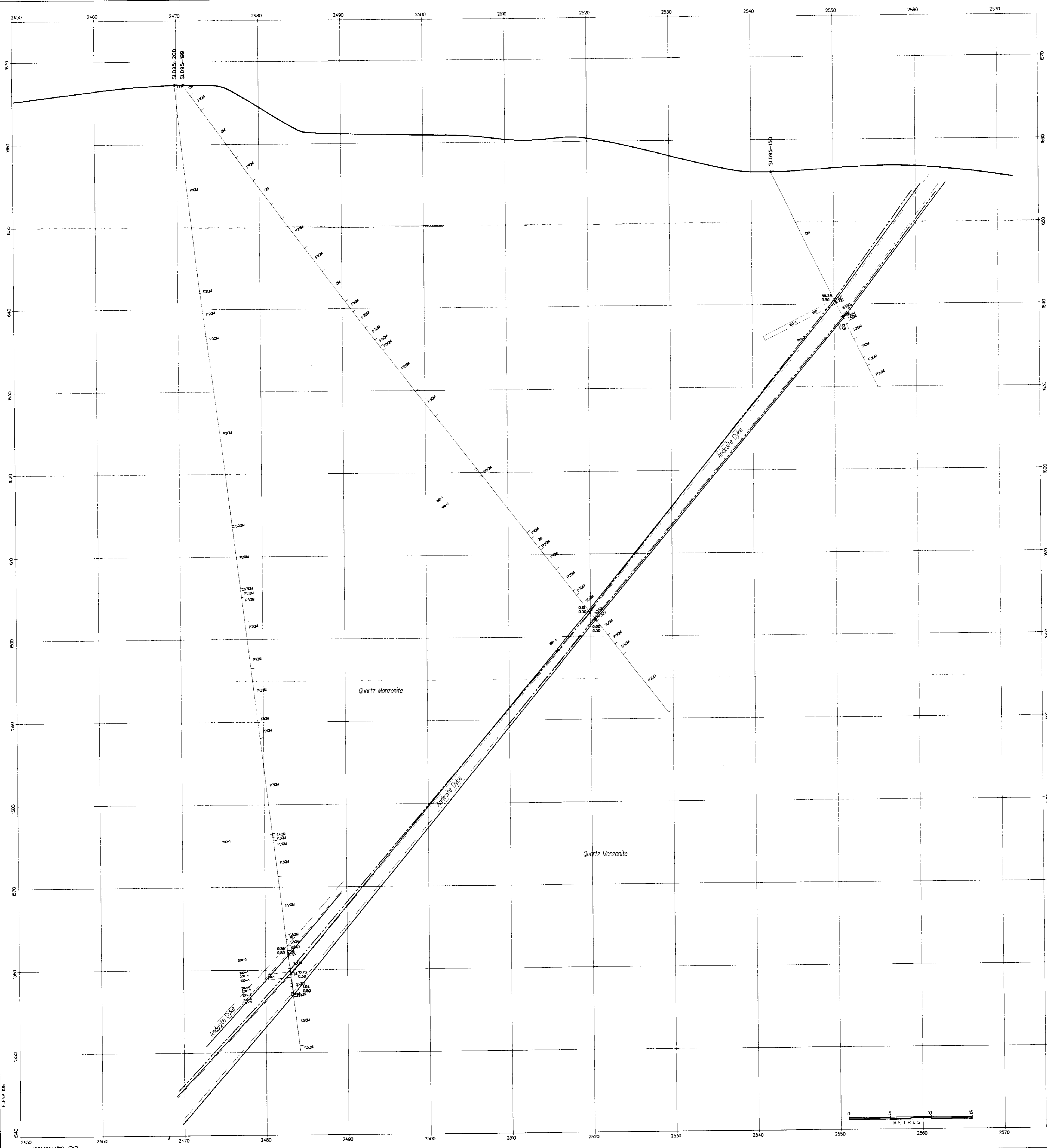
FAIRFIELD MINERALS LTD.  
1980 - 1055 West Hastings Street Vancouver, British Columbia V6E 2E9

**ELK PROPERTY**

LAKE ZONE AREA  
DIAMOND DRILL SECTION  
2310E  
SCALE 1 : 250  
LOOKING WEST

Drawn by DHR/PWC  
February, 1996

Plate 52



**LEGEND**

**LITHOLOGY**

- CS CASING
  - M MISSING CORE
  - OB OVERBLIND
- TERTIARY**
- AD ANDESITE DYKE dark grayish-green to olive green, fine-grained to weakly porphyritic
  - BR BRECCIA fragmented rock in a clay or clay-chert rich matrix, commonly grades into gouge
  - GG GOUGE clay-rich with numerous rock fragments, shear fabric or banding may be evident
  - QV QUARTZ VEIN white to gray quartz with some inclusions, commonly 1% to 20% pyrite with lesser chloropyrite, pyrrhotite, arsenic, galena, tetrahedrite, rare visible gold
- JURASSIC**
- OSPREY LAKE BATHOLITH
- AP APLITE pink to light gray, fine grained, aegirine, may grade into pegmatite
  - FP FELDSPAR PORPHYRY pink to red, medium fine-grained, k-spar rich
  - GC GRANODIORITE CHILL MARGIN medium to dark gray, fine grained up to 10% biotite or hornblende
  - GD GRANODIORITE medium to dark gray, fine to medium grained up to 10% biotite or hornblende
  - GR GRANITE pink to pinkish gray, quartz - k-spar rich with some hornblende
  - PG PEGMATITE pink to light gray, very coarse grained to megacrystic, quartz - k-spar - muscovite rich
  - QM QUARTZ MONZONITE light to medium pinkish gray, coarse grained, equigranular with up to 10% biotite or hornblende
- TRASSIC**
- NICOLA GROUP VOLCANICS
- AV ANDESITIC VOLCANICS dark gray-green to near black, very fine-grained to aphanitic
  - (P) PORPHYRIC VOLCANIC as above phenocrysts of plagioclase or hornblende to about 20%
  - (B) VOLCANIC BRECCIA as above, brecciated (primary) with andesitic matrix, matrix (or clay) contains up to 25% pyrite - pyrrhotite - chloropyrite

**ALTERATION CODES**

- A(n) ARFVEDSONITE
  - PH(n) PHYLIC
  - K(n) K-SPAR STABLE PHYLIC
  - P(n) PROPHYLIC
  - SE(n) SERICITIC
  - QU(n) QUARTZ
  - S(n) SILICIFICATION
- (n = 1 TO 5, WEAK TO INTENSE)

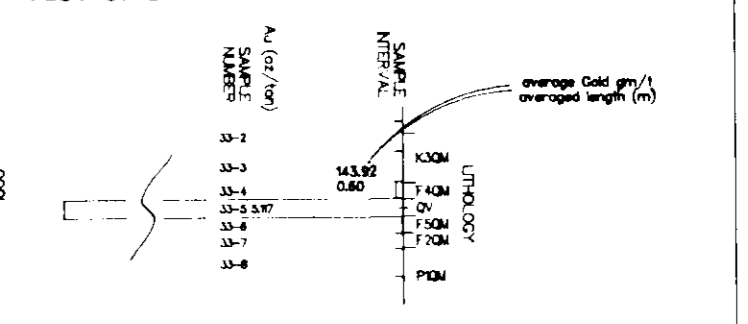
**SULFIDE CONTENT CODES (quartz veins)**

- Y1 less than 1% sulfide
- Y2 1% to 10% sulfide
- Y3 10% to 20% sulfide
- Y4 20% to 30% sulfide
- Y5 greater than 30% sulfide

**SYMBOLS**

- LITHOLOGIC CONTACT
- TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones labeled on sections)
- - - FAULT OR SHEAR

**PLOT OF DRILL HOLE**



NOTE: GOLD ASSAYS AND AVERAGES < 0.05 g/t are NOT POSTED

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**24,374**  
PART 5 OF 7

FAIRFIELD MINERALS LTD.  
1980 - 1055 West Hastings Street Vancouver, British Columbia V6E 2E9

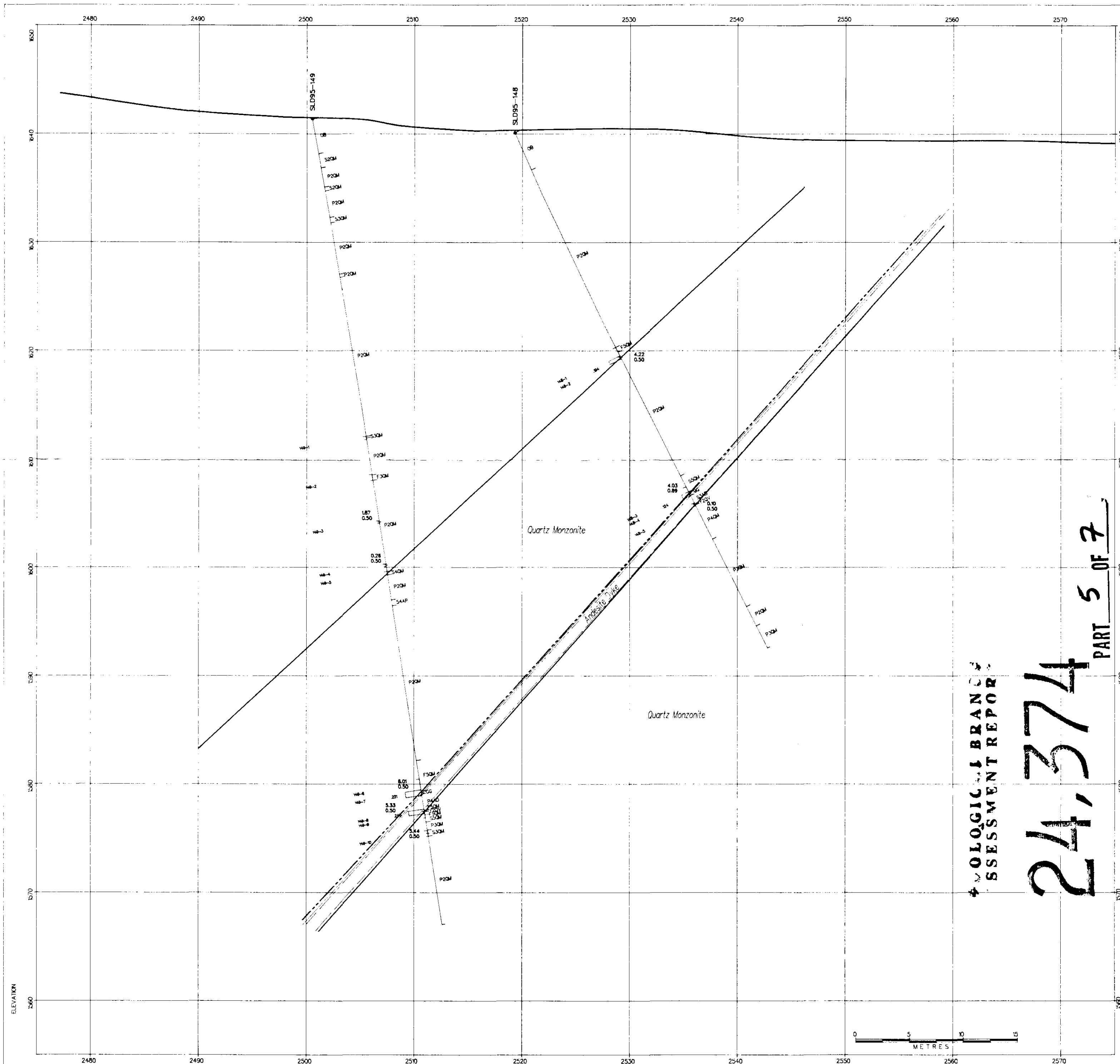
**ELK PROPERTY**

LAKE ZONE AREA  
DIAMOND DRILL SECTION  
**2360E**

SCALE 1 : 250  
LOKING WEST

Drawn by DHR/PWC  
February, 1998

Plate 53



**LEGEND**

**LITHOLOGY**

CS CASING  
M MISSING CORE  
OB OVERBURDEN

**TERTIARY**

AD ANDESITE DYKE dark grayish-green to olive green, fine-grained to weakly porphyritic  
BR BRECCIA fragmented rock in a clay or clay-chlorite rich matrix, commonly grades into gouge  
GG GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident  
QV QUARTZ VEN white to grey quartz with some arsenite, commonly 10% to 20% pyrite with lesser chloropyrite, pyrrhotite, arsenite, arsenic, hematite, rare visible gold

**JURASSIC**

OSPREY LAKE BATHOLITH

AP APLITE pink to light grey, fine grained, aurotic, may grade into pegmatite  
FB FELDSPAR PORPHYRY pink to red, medium fine-grained, k-spar rich  
GC GRANDODORITE CHILL MARGIN medium to dark grey, fine grained up to 10% biotite or hornblende  
GD GRANDODORITE medium to dark grey, fine to medium grained up to 10% biotite or hornblende  
GR GRANITE pink to pinkish grey, quartz - k-spar rich with some hornblende  
PG PEGMATITE pink to light grey, very coarse grained to megacrystic, quartz - k-spar - muscovite rich  
QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained, equigranular with up to 10% biotite or hornblende

**TRASSIC**

NEOLA GROUP VOLCANICS

AV ANDESITIC VOLCANICS dark grey-green to near black, very fine-grained to aphanitic  
(P) PLAGIOCLASTIC VOLCANIC as above, phenocrysts of plagioclase or hornblende to about 20%  
(V) VOLCANIC BRECCIA as above, brecciated (primary) with andesitic matrix, matrix may contain up to 20% pyrite - pyrrhotite - arsenopyrite

**ALTERATION CODES**

A(n) ARGILLIC  
F(n) FERRUGINOUS  
FK K-spar STABLE PHYLIC  
K(n) POTASSIC  
P(n) PROPYLITIC  
S(n) SERPENTINIC  
SK SKARN  
SIL(n) SILICIFICATION  
(n = 1 TO 5, WEAK TO INTENSE)

**SULFIDE CONTENT CODES (quartz veins)**

Y1 less than 5% sulfide  
Y2 5% to 10% sulfide  
Y3 10% to 20% sulfide  
Y4 20% to 30% sulfide  
Y5 greater than 30% sulfide

**SYMBOLS**

— LITHOLOGIC CONTACT  
— TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones coded on sections)  
- - - FAULT OR SHEAR

**PLOT OF DRILL HOLE**

NOTE: GOLD ASSAYS AND AVERAGES < 0.05 g/ton NOT POSTED

GEOLOGICAL BRANCH ASSESSMENT REPORT

24,374

PART 5 OF 7

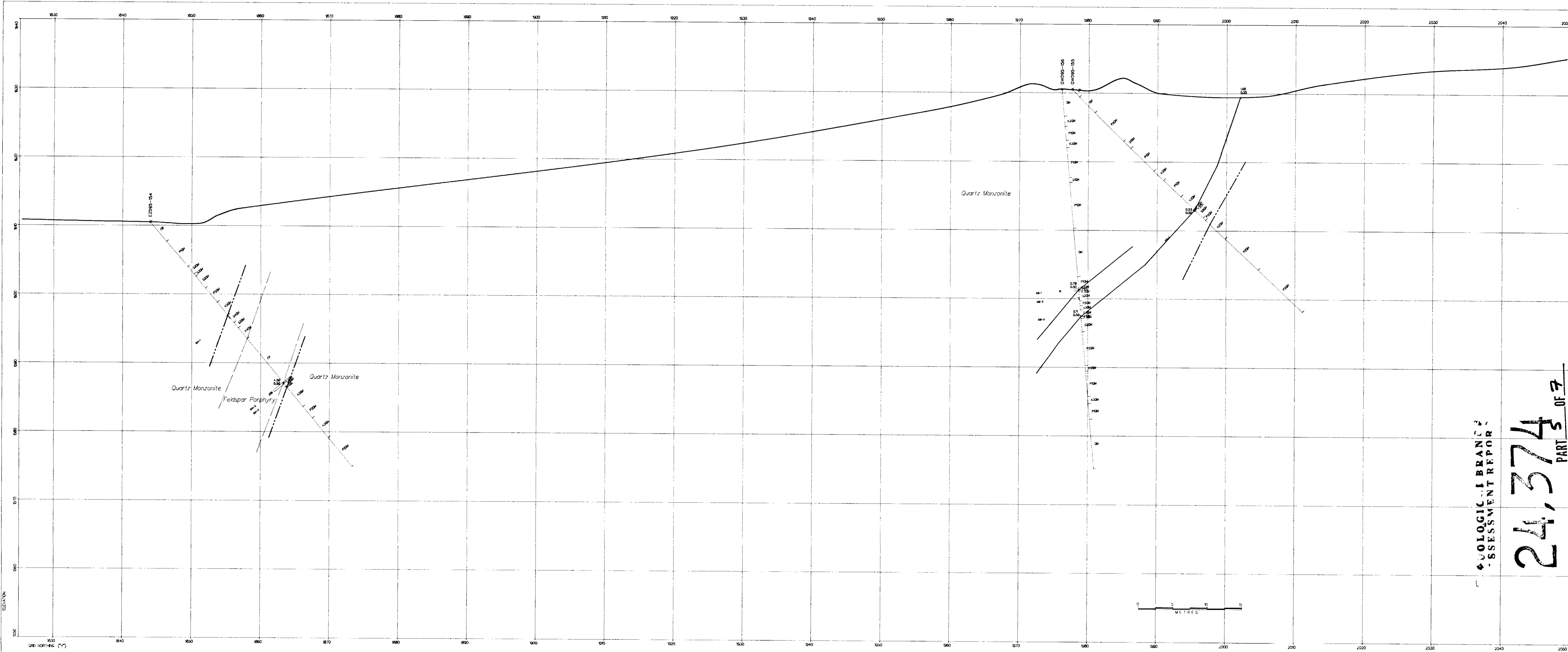


**FAIRFIELD MINERALS LTD.**  
1980 - 1055 West Hastings Street Vancouver, British Columbia V6E 2E9

**ELK PROPERTY**  
**LAKE ZONE AREA**  
**DIAMOND DRILL SECTION**  
**2460E**  
**SCALE 1 : 250**  
**LOOKING WEST**

Drawn by DHR/PWC  
February, 1998

Plate 54



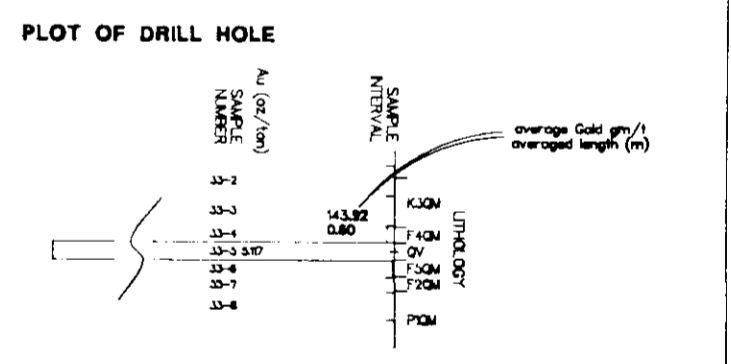
**LEGEND**

- LITHOLOGY**
- CS CASING
  - M MISSING CORE
  - DR DRAINAGE
- TERTIARY**
- AD ANDESITE DYKE dark grey-green to olive green, fine grained to weakly porphyritic
  - FP FELDSPAR PORPHYRY light to medium grey or brown matrix, with 15 to 30% feldspar crystals
  - (SP) SPARSE PORPHYRY as above, less than 15% porphyry
  - BR BRECCIA fragmented rock in a clay or clay-chert rich matrix, commonly grades into gouge
  - GG GOUGE clay-rich with numerous rock fragments, steep fraction or sanding may be present
  - DV QUARTZ VEIN white to grey quartz with some arsenic, commonly 1/2 to 20% pyrite with some chlorite, epidote, quartz, arsenic, arsenopyrite, arsenopyrite, rare noble gas
- JURASSIC**
- OSPREY LAKE BATHOLITH
  - AP APLITE pink to light grey, fine grained, aurophilic, may grade into pegmatite
  - GR GRANITE pink to pinkish grey, quartz - K-spar rich with some hornblende
  - PG PEGMATITE pink to light grey, very coarse grained to megacrystic, quartz - K-spar - muscovite rich
  - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained, aurophilic with up to 30% biotite or hornblende

- ALTERATION CODES**
- Al) ALKALIC
  - Pr) ANHYDRIC
  - PK) POTASSIC
  - PH) HIGHLY PHYLIC
  - SP) SERPENTINIC
  - SE) SODIUM SERPENTINIZATION
  - SO) SOULFIDATION
- (n = 1 TO 3, WEAK TO INTENSE)

- SULFIDE CONTENT CODES (quartz veins)**
- V1 less than 1% sulfide
  - V2 1 to 5% sulfide
  - V3 5 to 10% sulfide
  - V4 10 to 20% sulfide
  - V5 20 to 30% sulfide
  - V6 greater than 30% sulfide

- SYMBOLS**
- LITHOLOGIC CONTACT
  - TRACE OF MINERALIZED STRUCTURE (line types differ by core, individual cores stated on sections)
  - FAULT OR SHEAR



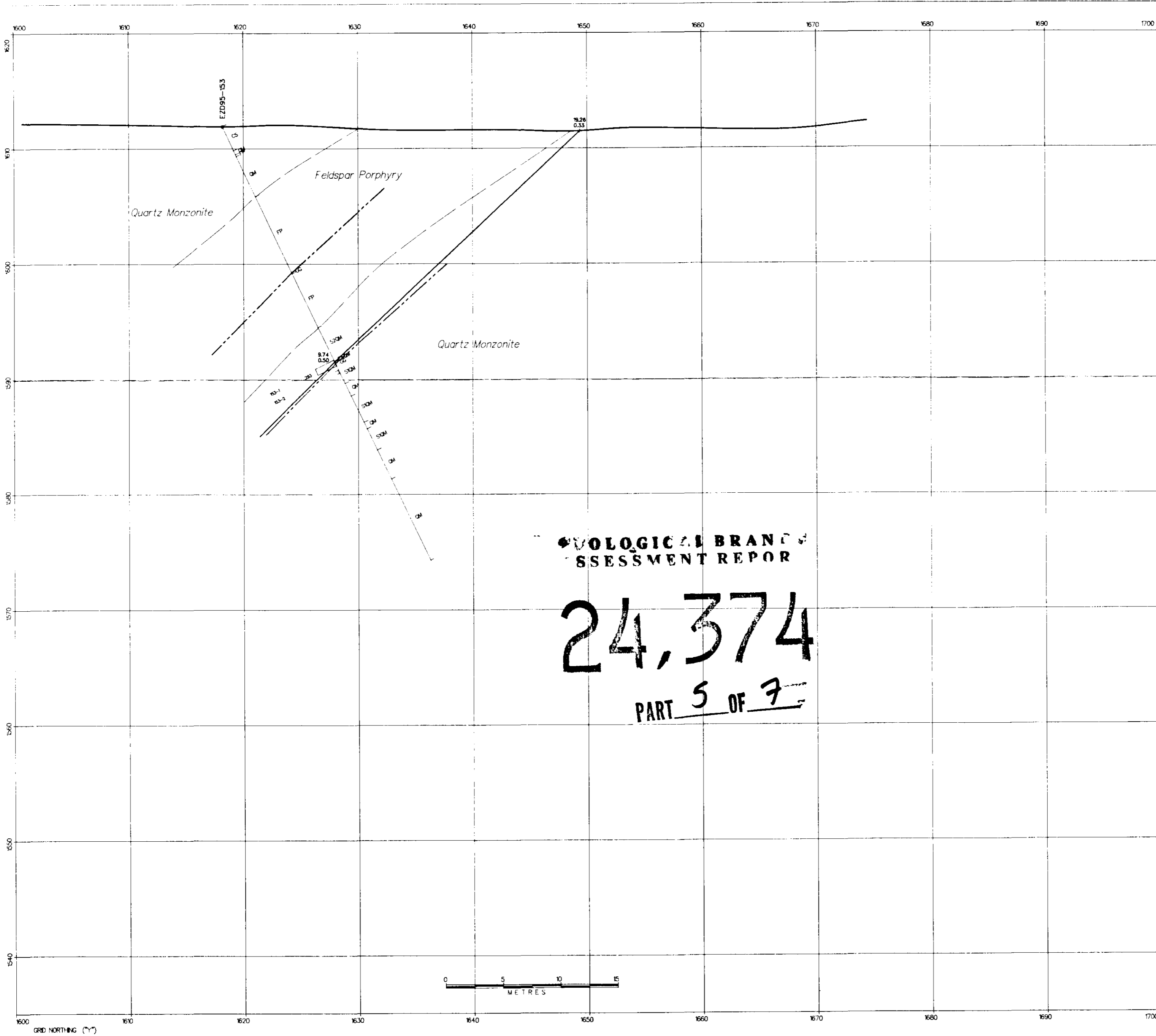
NOTE: GOLD ASSAYS AND AVERAGES < 0.05 g/t are NOT POSTED

GEOLOGICAL BRANCH  
 ASSESSMENT REPORT  
 24,374  
 PART 3 OF 7

**FAIRFIELD MINERALS LTD.**  
 1980 - 1005 West Hastings Street Vancouver, British Columbia V6E 2E9

**ELK PROPERTY**  
**GREAT WALL ZONE**  
**DIAMOND DRILL SECTION**  
**2305E**  
 SCALE 1 : 250  
 LOOKING WEST

Drawn by DHR/PWC February, 1998 Plate 55



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**24,374**

**PART 5 OF 7**

**LEGEND**

**LITHOLOGY**

- CS CASING
  - M MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive green, fine-grained to waddy porphyritic
  - FP FELDSPAR PORPHYRY light to medium grey or brown matrix, with 3% to 30% k-spar phenocrysts
  - (SP) SPARSE PORPHYRY as above, less than 5% phenocrysts
  - BR BRECCIA fragmented rock in a clay or clay-chlorite rich matrix, commonly grades into gouge
  - GG GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - QV QUARTZ VEIN white to grey quartz with some ankerite, commonly 5% to 20% pyrite with lesser chalcopyrite, pyrrhotite, sphalerite, galena, tetrahedrite, arsenopyrite, rare visible gold
- JURASSIC**
- OSPREY LAKE BATHOLITH
  - AP APLITE pink to light grey, fine grained, acausal, may grade into pegmatite
  - GR GRANITE pink to pinkish grey, quartz - k-spar rich with some hornblende
  - PG PEGMATITE pink to light grey, very coarse grained to megacrystic, quartz - k-spar - muscovite rich
  - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende

**ALTERATION CODES**

- A(n) ARGILLIC
  - F(n) FERRUGINOUS
  - FK K-spar STABLE PHYLIC
  - K(n) K-spar
  - P(n) PROPYLITIC
  - S(n) SERPENTINIC
  - SK SKARN
  - S(n) SULFIDATION
- (n = 1 TO 5, WEAK TO INTENSE)

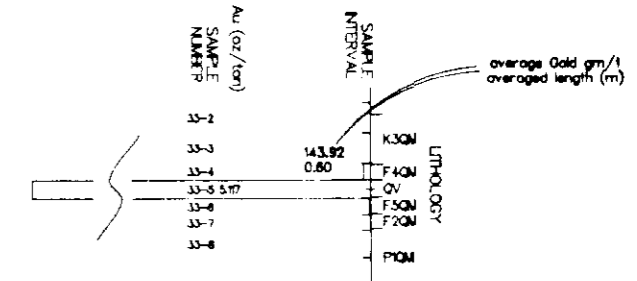
**SULFIDE CONTENT CODES (quartz veins)**

- Y1 less than 1% sulfide
- Y2 1% to 5% sulfide
- Y3 5 - 10% sulfide
- Y4 10 - 20% sulfide
- Y5 20 - 50% sulfide
- Y6 greater than 50% sulfide

**SYMBOLS**

- LITHOLOGIC CONTACT
- TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones labeled on sections)
- - - FAULT OR SHEAR

**PLOT OF DRILL HOLE**

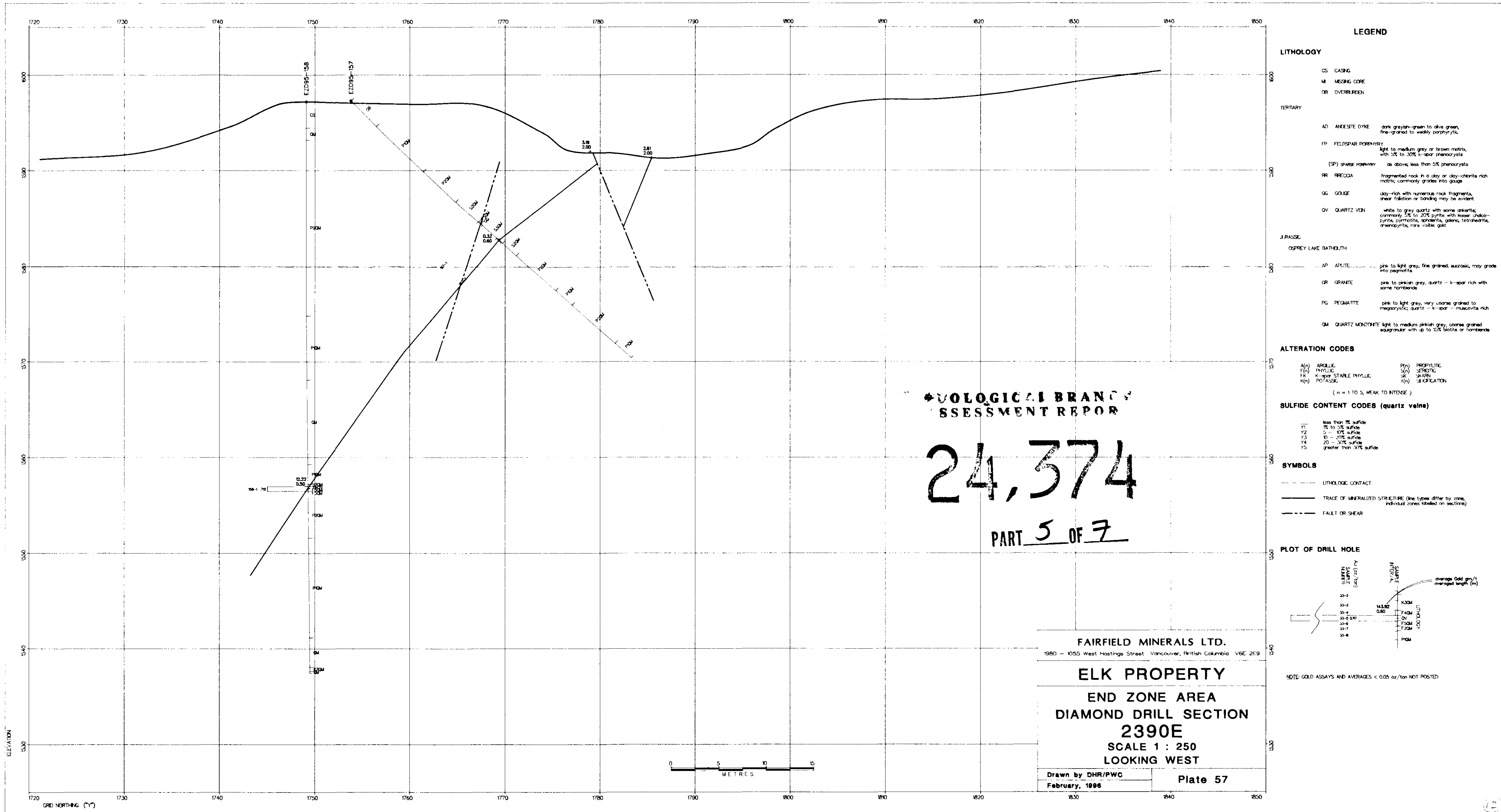


NOTE: GOLD ASSAYS AND AVERAGES < 0.05 oz/ton NOT POSTED

**FAIRFIELD MINERALS LTD.**  
1980 - 1055 West Hastings Street Vancouver, British Columbia V6E 2E9

**ELK PROPERTY**  
**END ZONE AREA**  
**DIAMOND DRILL SECTION**  
**2240E**  
**SCALE 1 : 250**  
**LOOKING WEST**

Drawn by DHR/PWC  
February, 1986  
**Plate 56**



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**24,374**

**PART 5 OF 7**

**FAIRFIELD MINERALS LTD.**  
 1980 - 1055 West Hastings Street Vancouver, British Columbia V6E 2E9

**ELK PROPERTY**

**END ZONE AREA  
DIAMOND DRILL SECTION  
2390E**

**SCALE 1 : 250  
LOOKING WEST**

Drawn by DHR/PWC  
February, 1996

**Plate 57**

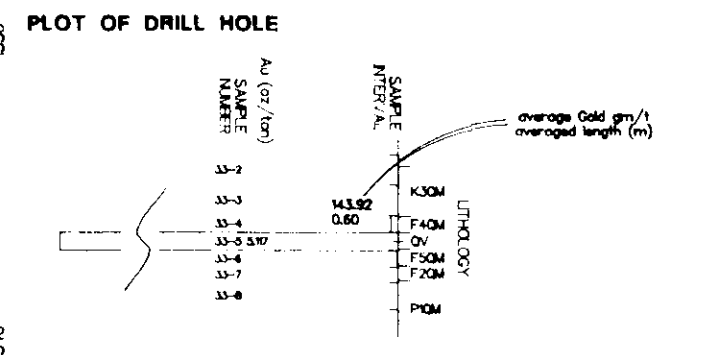
**LEGEND**

- LITHOLOGY**
- CS CASING
  - MI MESSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANEISTE DYKE dark grayish-green to olive green, fine-grained to weakly porphyritic.
  - FP FELDSPAR PORPHYRY light to medium grey or brown matrix, with 5% to 30% f-spar phenocrysts
  - (SP) SPHARE PORPHYRY as above, less than 5% phenocrysts
  - BR BRECCIA fragmented rock in a clay or clay-chlorite rich matrix, commonly grades into gouge
  - GG GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - QV QUARTZ VEIN white to grey quartz with some chlorite, commonly 5% to 20% pyrite with lesser chalcopyrite, sphalerite, arsenic, tetrahedrite, arsenopyrite, rare visible gold
- JURASSIC**
- OSPREY LAKE BATHOLITH**
- AP APLITE pink to light grey, fine grained, saccharic, may grade into pegmatite
  - GR GRANITE pink to pinkish grey, quartz - k-spar rich with some hornblende
  - PG PEGMATITE pink to light grey, very coarse grained to megacrystic; quartz - k-spar - muscovite rich
  - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 5% biotite or hornblende

- ALTERATION CODES**
- |                         |                  |
|-------------------------|------------------|
| A(n) ARGILLIC           | P(n) PROPYLITIC  |
| F(n) FERRUGINEOUS       | S(n) SERICITIC   |
| FK K-spar STABLE PHYLIC | SK SHALY         |
| K(n) POTASSIC           | X(n) SULFIDATION |
- (n = 1 TO 5, WEAK TO INTENSE)

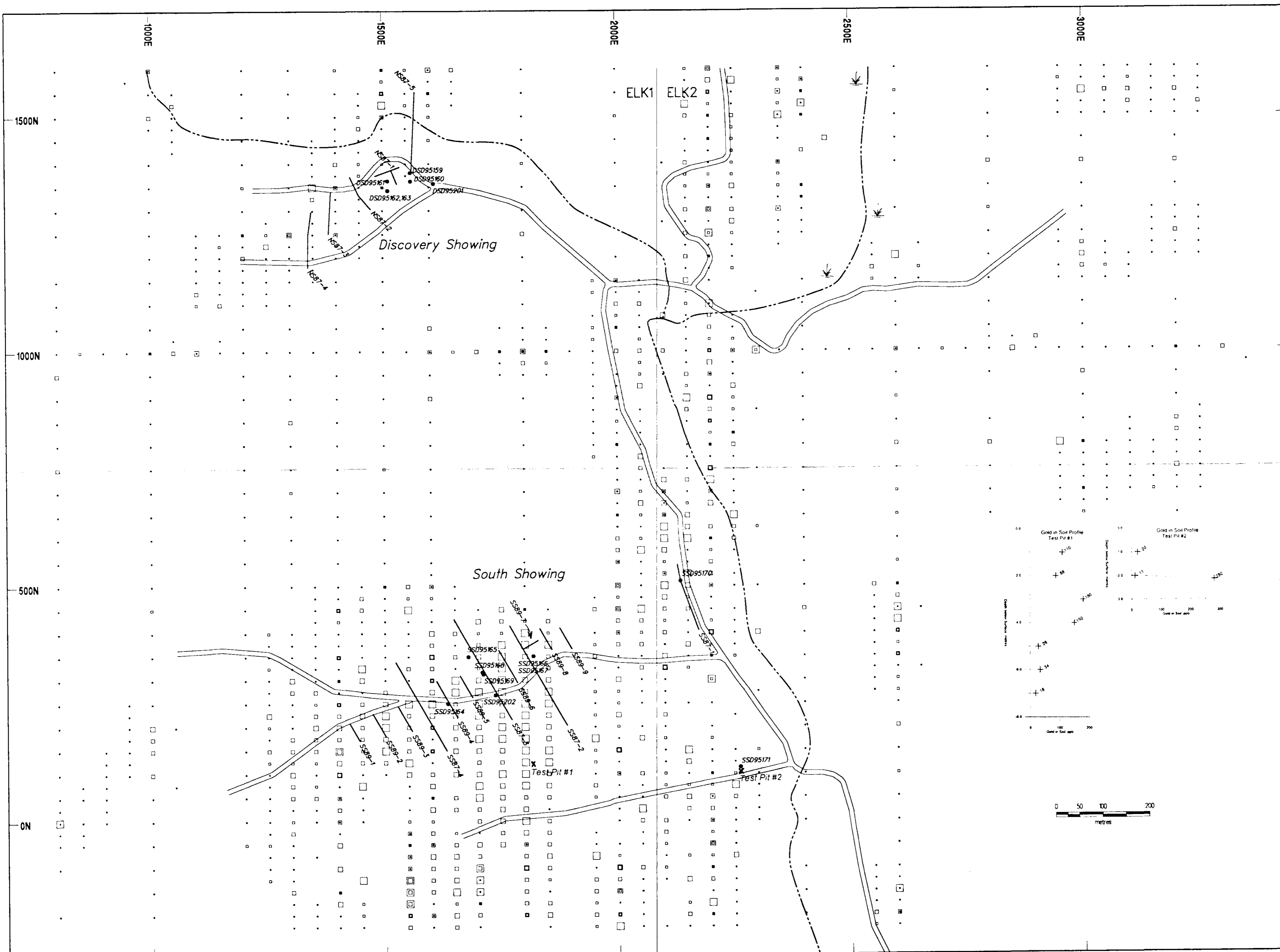
- SULFIDE CONTENT CODES (quartz veins)**
- |    |                          |
|----|--------------------------|
| V1 | less than 1% sulfide     |
| V2 | 1% to 5% sulfide         |
| V3 | 5% - 10% sulfide         |
| V4 | 10% - 20% sulfide        |
| V5 | 20% - 50% sulfide        |
| V6 | greater than 50% sulfide |

- SYMBOLS**
- LITHOLOGIC CONTACT
  - TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones labeled on sections)
  - - - FAULT OR SHEAR



NOTE: GOLD ASSAYS AND AVERAGES < 0.05 oz/ton NOT POSTED





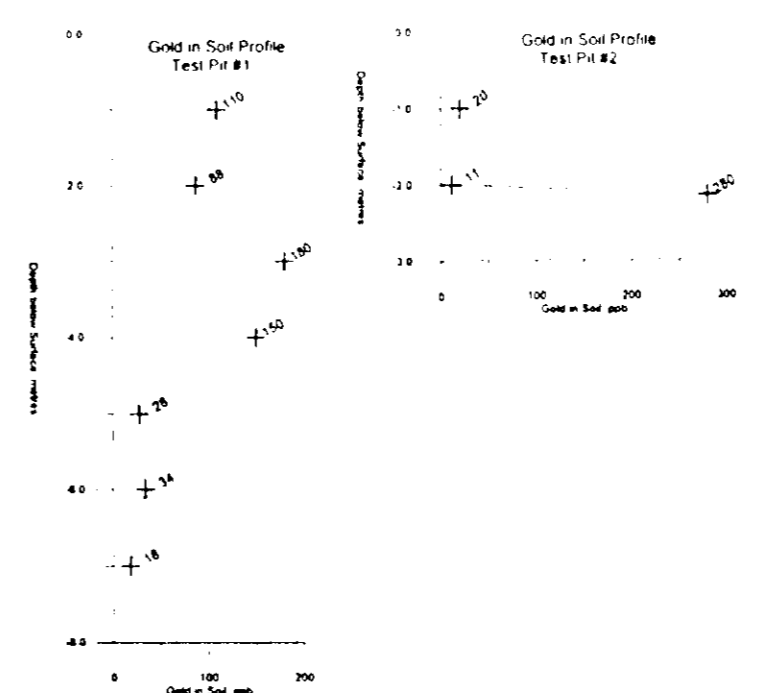
**KEY**

SS89-9 Surface Trench & number

SS095165 Diamond Drill Hole & number

**SOIL SAMPLE LOCATIONS**

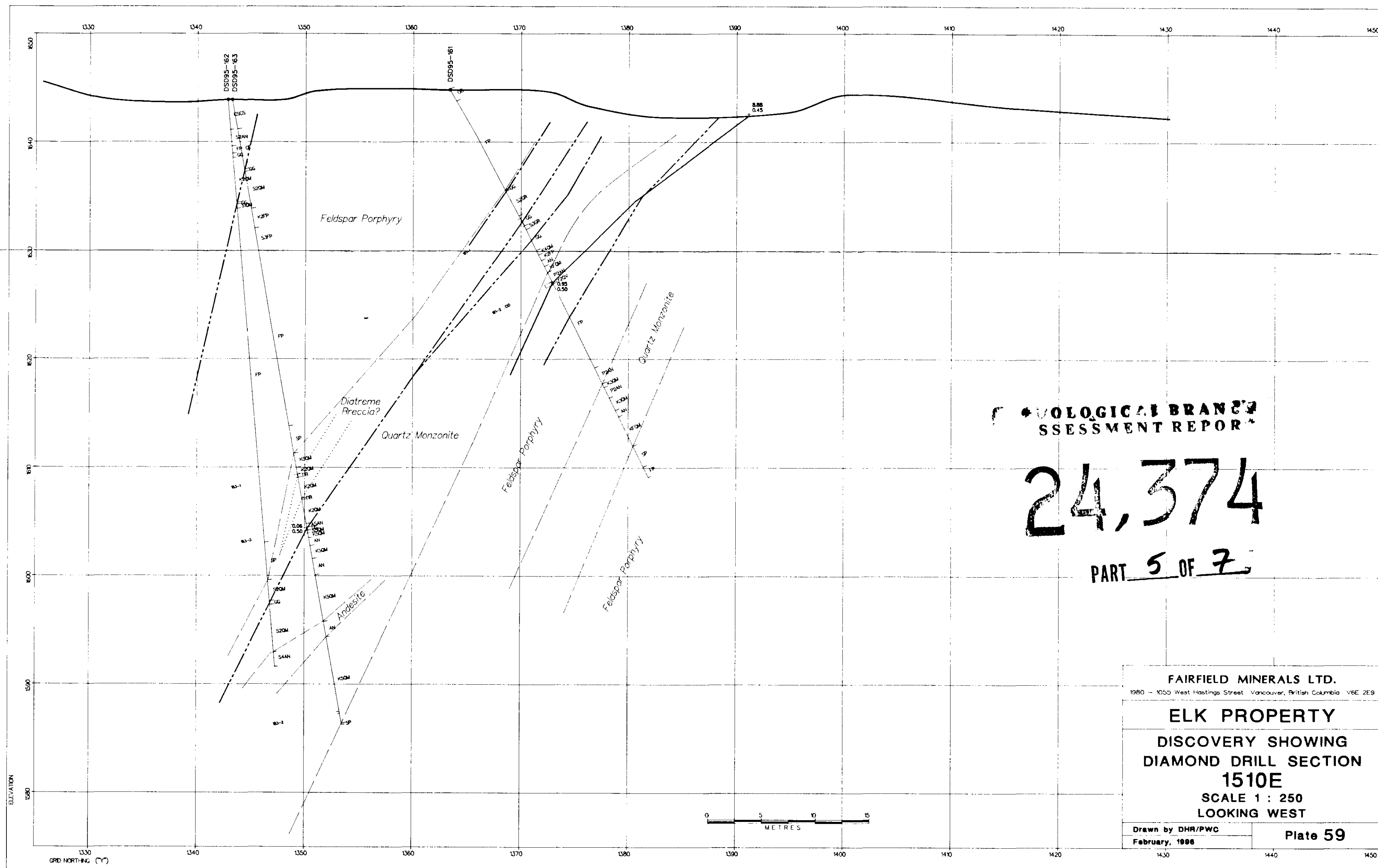
- Less than 10ppb Gold in soil
- 10ppb - 19ppb Gold
- ◻ 20ppb to 49 ppb Gold
- ◻ 50ppb to 99ppb Gold
- ◻ Greater than 99 ppb Gold in soil



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**24,374** PART 5 OF 7

<b>ELK PROPERTY</b>	
<small>Similkameen Mining Division NTS 92H/16W, B.C.</small>	
<b>DISCOVERY AND SOUTH SHOWING AREAS COMPILATION MAP</b>	
<b>SCALE 1 : 5,000</b>	
<small>Drawn by WJ Feb., 1996</small>	<b>Plate 58</b>
<b>FAIRFIELD MINERALS LTD.</b>	
<small>1980 - 1055 West Hastings Street Vancouver, British Columbia V6E 2E9</small>	



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**24,374**

**PART 5 OF 7**

**FAIRFIELD MINERALS LTD.**  
 1980 - 1055 West Hastings Street Vancouver, British Columbia V6E 2E9

**ELK PROPERTY**  
**DISCOVERY SHOWING**  
**DIAMOND DRILL SECTION**  
**1510E**  
**SCALE 1 : 250**  
**LOOKING WEST**

Drawn by DHR/PWC  
 February, 1986

**Plate 59**

**LEGEND**

**LITHOLOGY**

CS CASING  
 M MISSING CORE  
 OB OVERBURDEN

**TERTIARY**

AD ANDESITE DYKE dark greyish-green to olive green, fine-grained to weakly porphyritic  
 AN ANDESITE dark greyish-green to olive green, fine-grained  
 FP FELDSPAR PORPHYRY light to medium gray or brown matrix, with 5% to 30% K-spar phenocrysts from 5m to 30m locally foliated  
 (SP) SPARSE PORPHYRY as above, less than 5% phenocrysts  
 QP QUARTZ - FELDSPAR PORPHYRY light to medium gray, with 5% to 30% quartz and K-spar phenocrysts to 5m  
 FR FRECCIA fragmented rock in a clay or clay-chlorite rich matrix, commonly grades into gouge  
 GG GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident  
 DR DIATREME FRECCIA andesite, granite, and quartz vein fragments in a granitic matrix or quartz-cemented, commonly containing 1% to 10% sulfide minerals  
 QV QUARTZ VEIN white to gray quartz with some andesite, commonly 5% to 20% pyrite with lesser chalcopyrite, pyrrhotite, sphalerite, galena, tetrahedrite, arsenopyrite, rare native gold

**JURASSIC**

OSPREY LAKE BATHOLITH

AP APLITE pink to light grey, fine grained, auroic, may grade into pegmatite  
 GR GRANITE pink to pinkish orange, coarse grained, quartz and K-spar rich with some hornblende or biotite  
 PG PEGMATITE pink to light grey, very coarse grained to megacrystic, quartz - K-spar - muscovite rich  
 QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained, equigranular with up to 5% biotite or hornblende

**ALTERATION CODES**

A(n) ARGILIC P(n) PROPYLITIC  
 F(n) PHYLIC S(n) SPANGITIC  
 K(n) POTASSIC SP(n) SKARN K(n) KALIFICATION  
 (n = 1 TO 5, WEAK TO INTENSE)

**SULFIDE CONTENT CODES (quartz veins)**

Y1 less than 1% sulfide  
 Y2 1% to 5% sulfide  
 Y3 5% to 20% sulfide  
 Y4 20% to 50% sulfide  
 Y5 greater than 50% sulfide

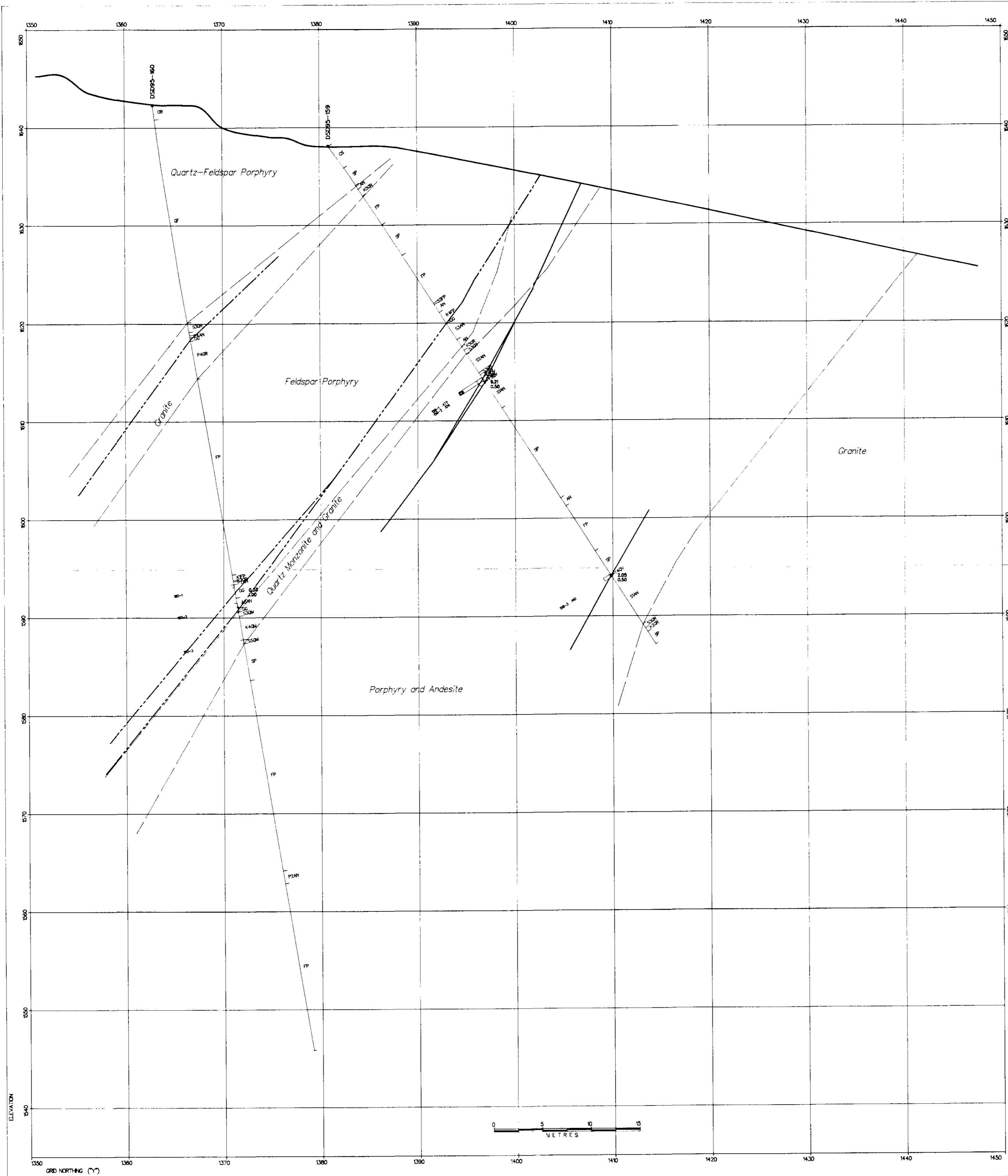
**SYMBOLS**

--- LITHOLOGIC CONTACT  
 — TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones labelled on sections)  
 - - - - - FAULT OR SHEAR  
 ..... DIATREME FRECCIA

**PLOT OF DRILL HOLE**

NOTE: GOLD ASSAYS AND AVERAGES < 0.05 oz/ton NOT POSTED



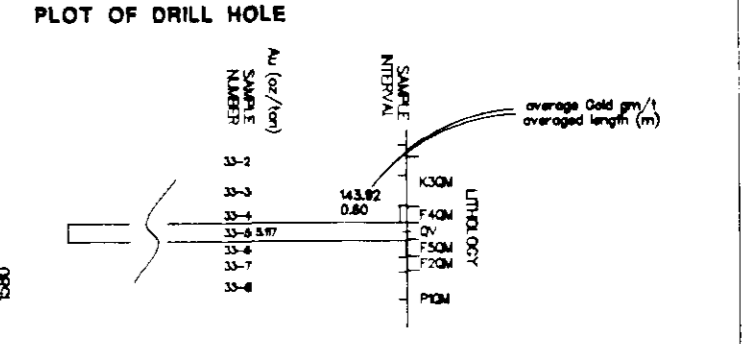


**LEGEND**

- LITHOLOGY**
- CS CASING
  - M MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark grayish-green to olive green, fine-grained to waxy porphyritic
  - AN ANDESITE dark grayish-green to olive green, fine-grained
  - FP FELDSPAR PORPHYRY light to medium gray or brown matrix, with 5% to 30% k-spar phenocrysts from top to base, locally labeled
  - (SP) GRAISE PORPHYRY as above, less than 5% phenocrysts
  - QP QUARTZ - FELDSPAR PORPHYRY light to medium gray, with 5% to 30% quartz and k-spar phenocrysts to top
  - BR BRECCIA fragmented rock in a clay or clay-chlorite rich matrix, commonly grades into gouge
  - GG GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - DB DIATREME BRECCIA andesite, granitic, and quartz vein fragments in a granitic matrix or quartz-cemented, commonly containing 1% to 10% sulfide minerals
  - QV QUARTZ VEIN white to gray quartz with some arsenite, commonly 5% to 20% pyrite with lesser chalcopyrite, pyrrhotite, epidote, garnet, sericite, and arsenopyrite, rare visible gold
- JURASSIC**
- OSPREY LAKE BATHOLITH
- AP APLITE pink to light grey, fine grained, sucroic, may grade into pegmatite
  - GR GRANITE pink to pinkish orange, coarse grained quartz and k-spar rich with some hornblende or biotite
  - PG PEGMATITE pink to light grey, very coarse grained to megacrystic quartz - k-spar - muscovite rich
  - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende

- ALTERATION CODES**
- |      |                      |      |                   |
|------|----------------------|------|-------------------|
| A(n) | ARGILLIC             | P(n) | PROPYLITIC        |
| F(n) | PHYLIC               | S(n) | SERICITIC         |
| PK   | K-SPAR STABLE PHYLIC | SO   | SULFIDE OXIDATION |
| K(n) | POTASSIC             | X(n) | SULFICATION       |
- (n = 1 TO 5, WEAK TO INTENSE)

- SULFIDE CONTENT CODES (quartz veins)**
- |    |                          |
|----|--------------------------|
| Y1 | less than 1% sulfide     |
| Y2 | 1% to 5% sulfide         |
| Y3 | 5% to 10% sulfide        |
| Y4 | 10% to 20% sulfide       |
| Y5 | 20% to 30% sulfide       |
| Y6 | greater than 30% sulfide |
- SYMBOLS**
- LITHOLOGIC CONTACT
  - TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones labeled on sections)
  - - - FAULT OR SHEAR
  - ..... DIATREME BRECCIA



NOTE: GOLD ASSAYS AND AVERAGES < 0.05 oz./ton NOT POSTED

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**24,374**  
PART 5 OF 7

**FAIRFIELD MINERALS LTD.**  
1980 - 1055 West Hastings Street Vancouver, British Columbia V6E 2E9

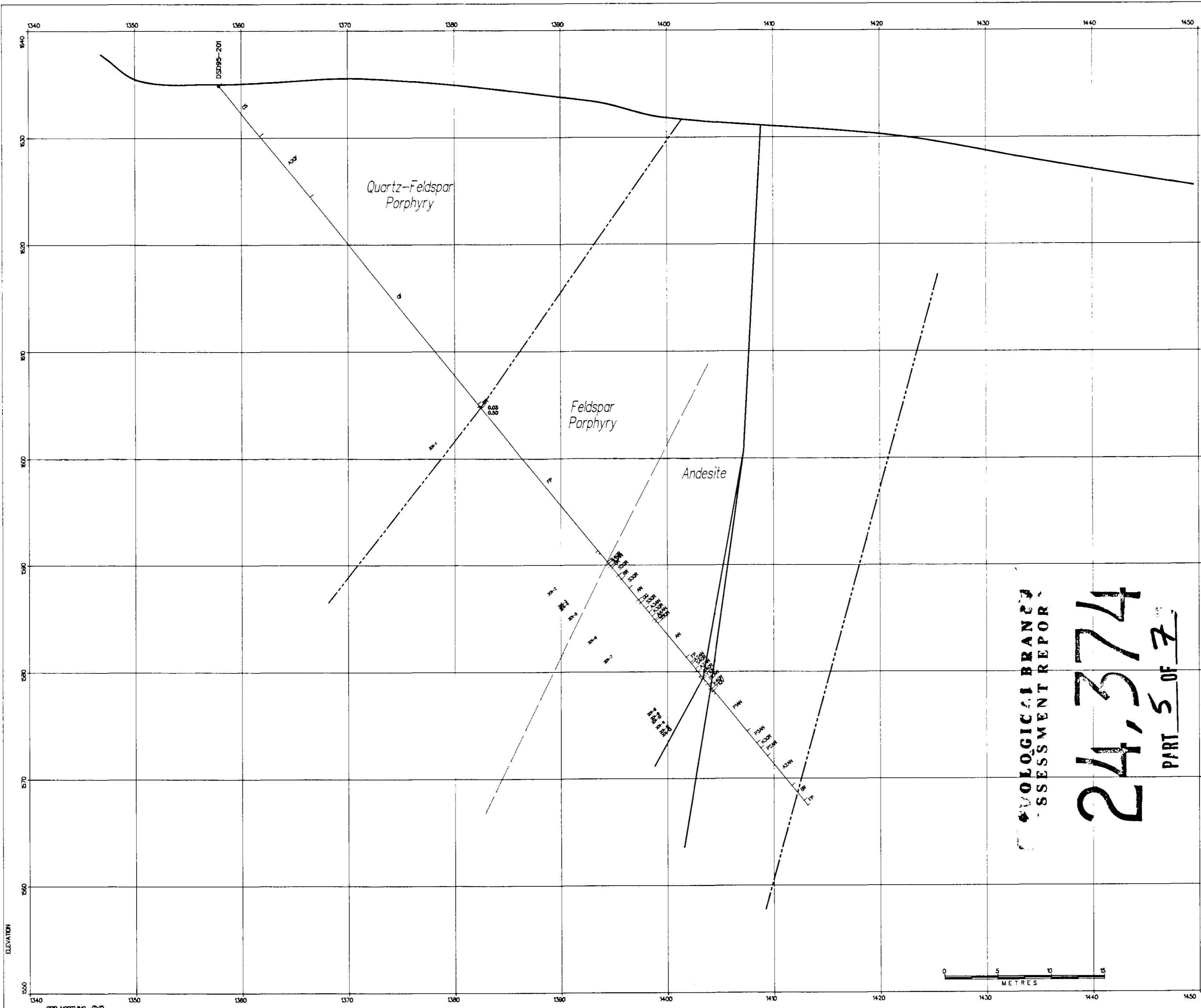
**ELK PROPERTY**

**DISCOVERY SHOWING  
DIAMOND DRILL SECTION  
1560E  
SCALE 1 : 250  
LOOKING WEST**

Drawn by DHR/PWC  
February, 1998

Plate 60





### LEGEND

**LITHOLOGY**

- CS CASING
- MI MISSING CORE
- OB OVERBURDEN

**TERTIARY**

- AD ANDESITE DYKE dark greyish-green to olive green, fine-grained to weakly porphyritic
- AN ANDESITE dark greyish-green to olive green, fine-grained
- FP FELDSPAR PORPHYRY light to medium grey or brown matrix, with 5% to 30% k-spar phenocrysts from lam to barn, locally foliated
- (SP) SPARSE PORPHYRY as above, less than 5% phenocrysts
- QP QUARTZ - FELDSPAR PORPHYRY light to medium grey, with 5% to 30% quartz and k-spar phenocrysts to lam
- FR BRECCIA fragmented rock in a clay or clay-chlorite rich matrix, commonly grades into gouge
- GG GOUGE clay-rich with numerous rock fragments, shear relation or banding may be evident
- DB DIATREME BRECCIA andesite, granitic, and quartz vein fragments in a granitic matrix or quartz breccia; commonly containing 5% to 10% sulfide minerals
- QV QUARTZ VEIN white to grey quartz with some arsenite, commonly 5% to 20% pyrite with lesser chalcopyrite, pyrrhotite, sphalerite, galena, tetrahedrite, arsenopyrite, rare visible gold

**JURASSIC**

OSPREY LAKE BATHOLITH

- AP APLITE pink to light grey, fine grained, saccharic, may grade into pegmatite
- GR GRANITE pink to pinkish orange, coarse grained, quartz and k-spar rich with some hornblende or biotite
- PG PEGMATITE pink to light grey, very coarse grained to megacrystic, quartz - k-spar - muscovite rich
- QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained, equigranular with up to 15% biotite or hornblende

**ALTERATION CODES**

A(n) AROLLIC	P(n) PROPYLITIC
F(n) PHYLIC	S(n) SERICITIC
K(n) K-SPAR STABLE PHYLIC	SK(n) SKARN
P(n) POTASSIC	X(n) SULFIDATION

(n = 1 TO 3, WEAK TO INTENSE)

**SULFIDE CONTENT CODES (quartz veins)**

Y1	less than 1% sulfide
Y2	1% to 5% sulfide
Y3	5% - 10% sulfide
Y4	10% - 20% sulfide
Y5	20% - 30% sulfide
Y6	greater than 30% sulfide

**SYMBOLS**

- LITHOLOGIC CONTACT
- TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones labeled on sections)
- - - FAULT OR SHEAR
- ..... DIATREME BRECCIA

**PLOT OF DRILL HOLE**

NOTE: GOLD ASSAYS AND AVERAGES < 0.05 oz/ton NOT POSTED

GEOLOGICAL BRANCH  
 ASSESSMENT REPORT  
**24,374**  
 PART 5 OF 7



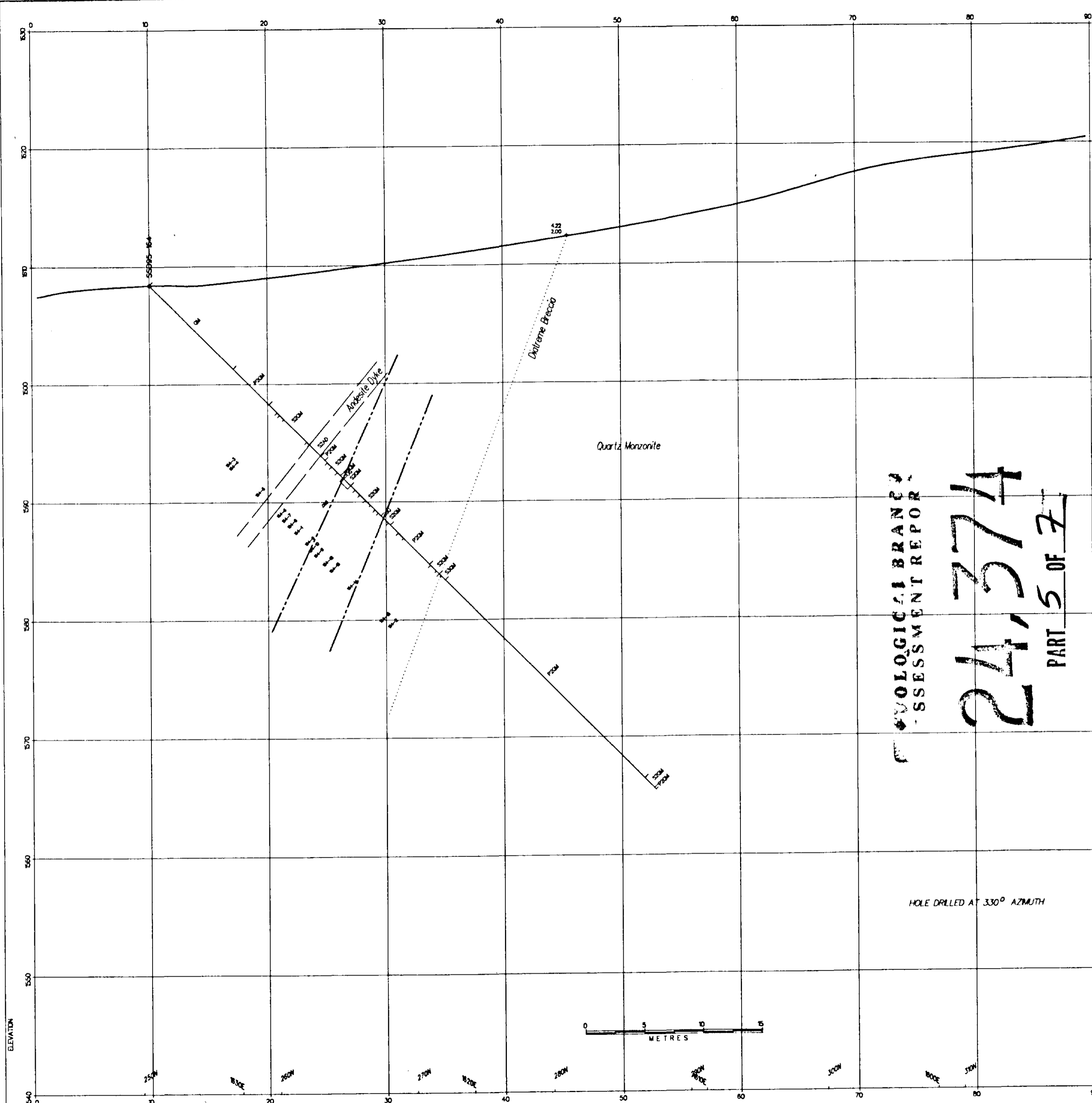
**FAIRFIELD MINERALS LTD.**  
 1980 - 1055 West Hastings Street Vancouver, British Columbia V6E 2E9

**ELK PROPERTY**

**DISCOVERY SHOWING**  
**DIAMOND DRILL SECTION**  
**1610E**  
**SCALE 1 : 250**  
**LOOKING WEST**

Drawn by DHR/PWC  
 February, 1998

Plate 61



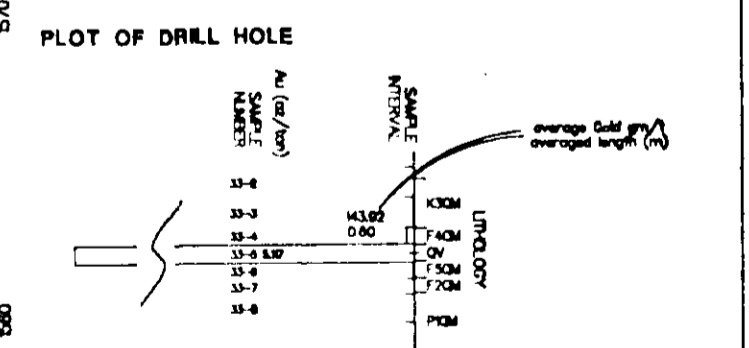
**LEGEND**

- LITHOLOGY**
- CS CASING
  - MI MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark grayish-green to olive green, fine-grained to wadely porphyritic
  - AN ANDESITE dark grayish-green to olive green, fine-grained
  - FP FELDSPAR PORPHYRY light to medium gray or brown matrix, with 5% to 30 % k-spar phenocrysts from 1cm to 5cm, locally foliated
  - (SP) SPARSE PORPHYRY as above, less than 5% phenocrysts
  - QP QUARTZ - FELDSPAR PORPHYRY light to medium gray, with 5% to 30% quartz and k-spar phenocrysts to 1cm
  - BR BRECCIA fragmented rock in a clay or clay-chlorite rich matrix, commonly grades into gouge
  - OG GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - DB DIATREME BRECCIA andesite, granite, and quartz vein fragments in a granitic matrix or quartz-cemented, commonly containing 5% to 10% sulfide minerals
  - QV QUARTZ VEIN white to gray quartz with some arsenic, commonly 5% to 20% pyrite with lesser chalcopyrite, pyrrhotite, sphalerite, galena, tetrahedrite, arsenopyrite, rare visible gold
- JURASSIC**
- OSPREY LAKE BATHOLITH
- AP APLITE pink to light gray, fine grained, aurosis, may grade into pegmatite
  - GR GRANITE pink to pinkish orange, coarse grained, quartz and k-spar rich with some hornblende or biotite
  - PG PEGMATITE pink to light gray, very coarse grained to megacrystic, quartz - k-spar - muscovite rich
  - QM QUARTZ MONZONITE light to medium pinkish gray, coarse grained, equigranular with up to 15% biotite or hornblende

- ALTERATION CODES**
- |        |                      |        |                |
|--------|----------------------|--------|----------------|
| A(1-3) | ARGILLIC             | P(1-3) | PROPYLITIC     |
| PH     | PHYLIC               | SK     | SEROTIC SKARN  |
| K(1-3) | K-SPAR STABLE PHYLIC | S      | SILICIFICATION |
| POT    | POTASSIC             |        |                |
- (n = 1 TO 3, WEAK TO INTENSE)

- SULFIDE CONTENT CODES (quartz veins)**
- |   |                          |
|---|--------------------------|
| 1 | less than 5% sulfide     |
| 2 | 5% to 10% sulfide        |
| 3 | 10% to 20% sulfide       |
| 4 | 20% to 30% sulfide       |
| 5 | greater than 30% sulfide |

- SYMBOLS**
- LITHOLOGIC CONTACT
  - TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones labeled on sections)
  - - - FAULT OR SHEAR
  - ..... DIATREME BRECCIA



NOTE: GOLD ASSAYS AND AVERAGES < 0.05 oz/ton NOT POSTED

**FAIRFIELD MINERALS LTD.**  
 1980 - 1055 West Hastings Street, Vancouver, British Columbia V6E 2E9

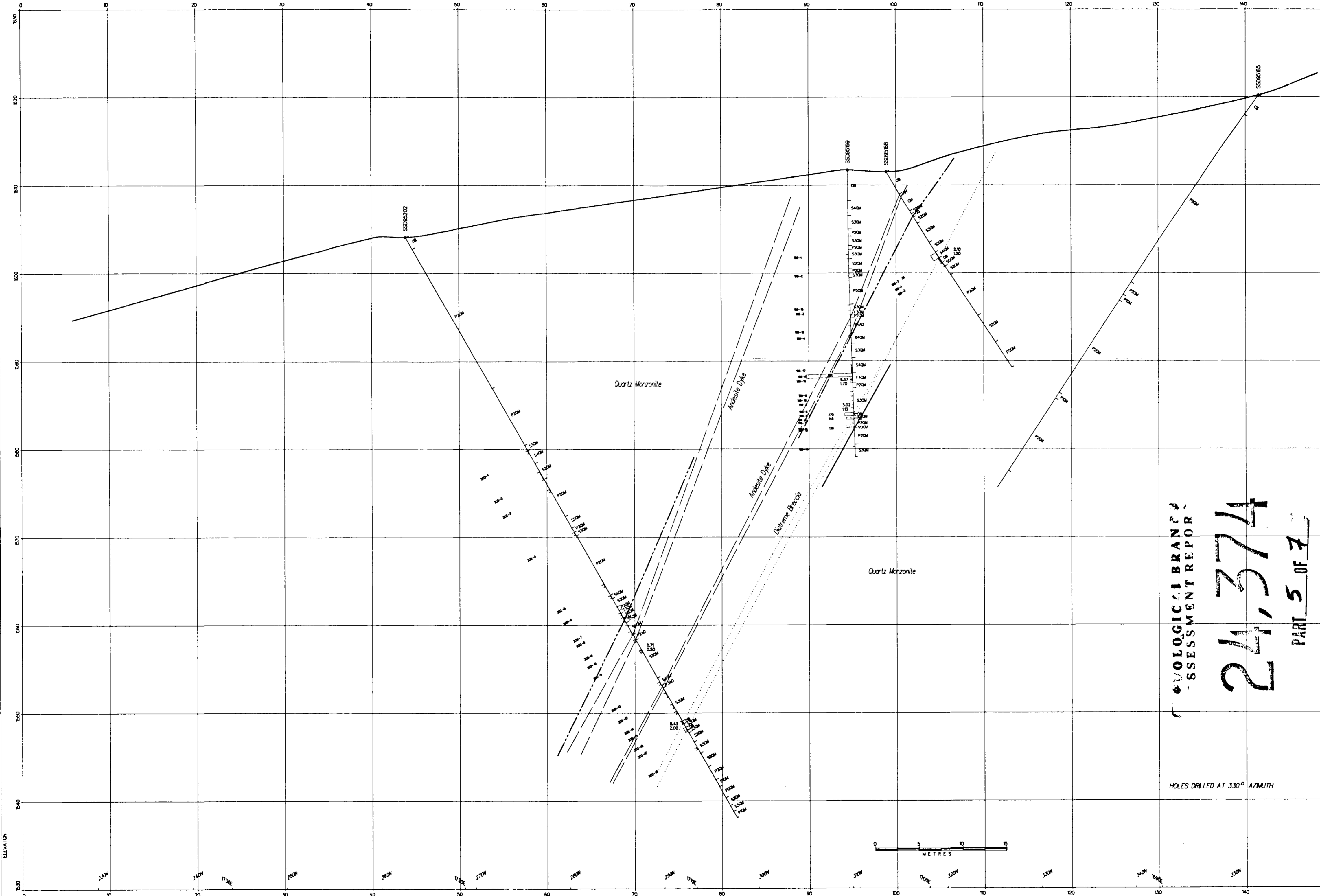
**ELK PROPERTY**

**SOUTH SHOWING AREA  
 DIAMOND DRILL SECTION  
 1635E  
 SCALE 1 : 250  
 LOOKING WEST**

Drawn by DHR/PWC  
 February, 1986

**Plate 62**

GEOLOGICAL BRANCH  
 ASSESSMENT REPORT  
 24,374  
 PART 5 OF 7



**LEGEND**

- LITHOLOGY**
- CS CASING
  - M MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark grayish-green to olive green, fine-grained to waxy porphyritic
  - AN ANDESITE dark grayish-green to olive green, fine-grained
  - FP FELDSPAR PORPHYRY light to medium gray or brown matrix, with 5% to 30% k-spr phenocrysts from top to 50% locally foliated
  - (SP) SPINEL PORPHYRY as above, less than 5% phenocrysts
  - QP QUARTZ - FELDSPAR PORPHYRY light to medium gray, with 5% to 30% quartz and k-spr phenocrysts to top
  - BR BRECCIA fragmented rock in a clay or clay-chlorite rich matrix, commonly grades into gouge
  - CG COUZE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - DB EXTREME BRECCIA andesite, granitic, and quartz vein fragments in a granitic matrix or quartz-fragmented, commonly containing 5% to 10% surface minerals
  - QV QUARTZ VEIN white to gray quartz with some andesite, commonly 5% to 20% pyrite with lesser chloropyrite, pyrrhotite, apatite, garnet, tetrahedrite, arsenopyrite, rare vaterite gas
- JURASSIC**
- OSPREY LAKE BATHOLITH
- AP APLITE pink to light gray, fine grained, saccharic, may grade into pegmatite
  - GR GRANITE pink to pinkish orange, coarse grained, quartz and k-spr rich with some hornblende or biotite
  - PG PEGMATITE pink to light gray, very coarse grained to megacrystic, quartz - k-spr - muscovite rich
  - QM QUARTZ MONZONITE light to medium pinkish gray, coarse grained, equigranular with up to 15% biotite or hornblende

- ALTERATION CODES**
- |       |                     |       |             |
|-------|---------------------|-------|-------------|
| A(n)  | ARGILLIC            | FR(n) | PROPHYLIC   |
| PH(n) | PHYLIC              | SR(n) | STRONCHIAN  |
| K(n)  | K-spr STABLE PHYLIC | SK(n) | SKARN       |
| SO(n) | SULFIDATION         | SL(n) | SULFIDATION |
- (n = 1 TO 5, WEAK TO INTENSE)
- SULFIDE CONTENT CODES (quartz veins)**
- |    |                          |
|----|--------------------------|
| S1 | less than 5% surface     |
| S2 | 5% to 10% surface        |
| S3 | 10% to 20% surface       |
| S4 | 20% to 30% surface       |
| S5 | greater than 30% surface |

- SYMBOLS**
- LITHOLOGIC CONTACT
  - TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones labeled on sections)
  - - - FAULT OR SHEAR
  - ..... EXTREME BRECCIA
- PLOT OF DRILL HOLE**
- 

GEOLOGICAL BRANCH  
 ASSESSMENT REPORT  
**24,374**  
 PART 5 OF 7

HOLES DRILLED AT 330° AZIMUTH

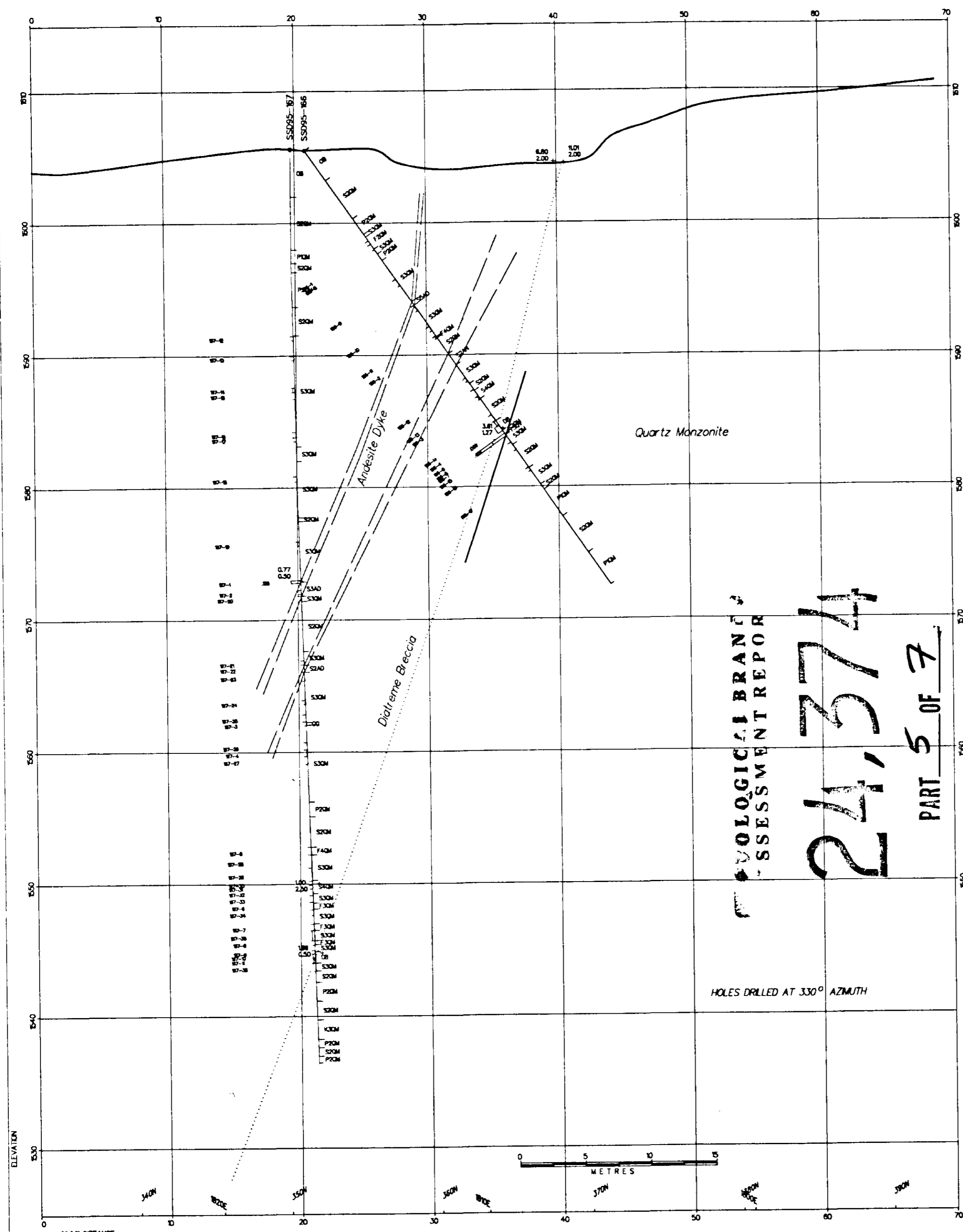
**FAIRFIELD MINERALS LTD.**  
 1060 - 1055 West Hastings Street Vancouver, British Columbia V6E 2E9

**ELK PROPERTY**

**SOUTH SHOWING AREA**  
**DIAMOND DRILL SECTION**  
**1710E**  
 SCALE 1 : 250  
 LOOKING WEST

Drawn by DHR/PWC  
 February, 1998

Plate 63



**LEGEND**

**LITHOLOGY**

- CS CASING
  - M MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark grayish-green to olive green, fine-grained to weakly porphyritic
  - AN ANDESITE dark grayish-green to olive green, fine-grained
  - FP FELDSPAR PORPHYRY light to medium gray or brown matrix, with 5% to 30 % k-spar phenocrysts from 1mm to 5mm, locally foliated
  - (SP) SPARSE PORPHYRY as above, less than 5% phenocrysts
  - QP QUARTZ - FELDSPAR PORPHYRY light to medium gray, with 5% to 30% quartz and k-spar phenocrysts to 1mm
  - BR BRECCIA fragmented rock in a clay or clay-chertite rich matrix, commonly grades into gouge
  - GC GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - DB DIATREME BRECCIA andesite, granitic, and quartz vein fragments in a granitic matrix or quartz-cemented, commonly containing 1% to 10% sulfide minerals
  - QV QUARTZ VEIN white to gray quartz with some chlorite, commonly 5% to 20% pyrite with lesser chalcopyrite, pyrrhotite, sphalerite, galena, tetrahedrite, arsenopyrite, rare visible gold
- JURASSIC**
- OSPREY LAKE BATHOLITH
- AP APLITE pink to light grey, fine grained, sucroic, may grade into pegmatite
  - GR GRANITE pink to pinkish orange, coarse grained, quartz and k-spar rich with some hornblende or biotite
  - PG PEGMATITE pink to light grey, very coarse grained to megacrystic, quartz - k-spar - muscovite rich
  - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained, equigranular with up to 10% biotite or hornblende

**ALTERATION CODES**

- |      |                       |      |                |
|------|-----------------------|------|----------------|
| A(n) | ARGILIC               | R(n) | PROPYLITIC     |
| P(n) | PHYLLIC               | S(n) | SEROTIC        |
| K(n) | K-spar STABLE PHYLLIC | SK   | SKARN          |
| P(n) | POTASSIC              | S(n) | SILICIFICATION |
- (n = 1 TO 5, WEAK TO INTENSE)

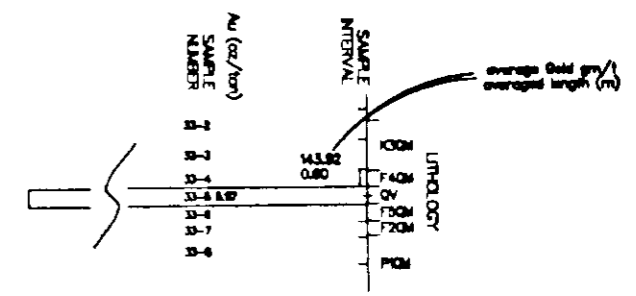
**SULFIDE CONTENT CODES (quartz veins)**

- |   |                          |
|---|--------------------------|
| 1 | less than 1% sulfide     |
| 2 | 1% to 5% sulfide         |
| 3 | 5% to 10% sulfide        |
| 4 | 10% to 20% sulfide       |
| 5 | 20% to 30% sulfide       |
| 6 | greater than 30% sulfide |

**SYMBOLS**

- LITHOLOGIC CONTACT
- TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones labelled on sections)
- - - - - FAULT OR SHEAR
- ..... DIATREME BRECCIA

**PLOT OF DRILL HOLE**



NOTE: GOLD ASSAYS AND AVERAGES < 0.05 oz/ton NOT POSTED

**LOGICAL BRANT**  
**ASSESSMENT REPORT**  
**24,374**  
**PART 5 OF 7**

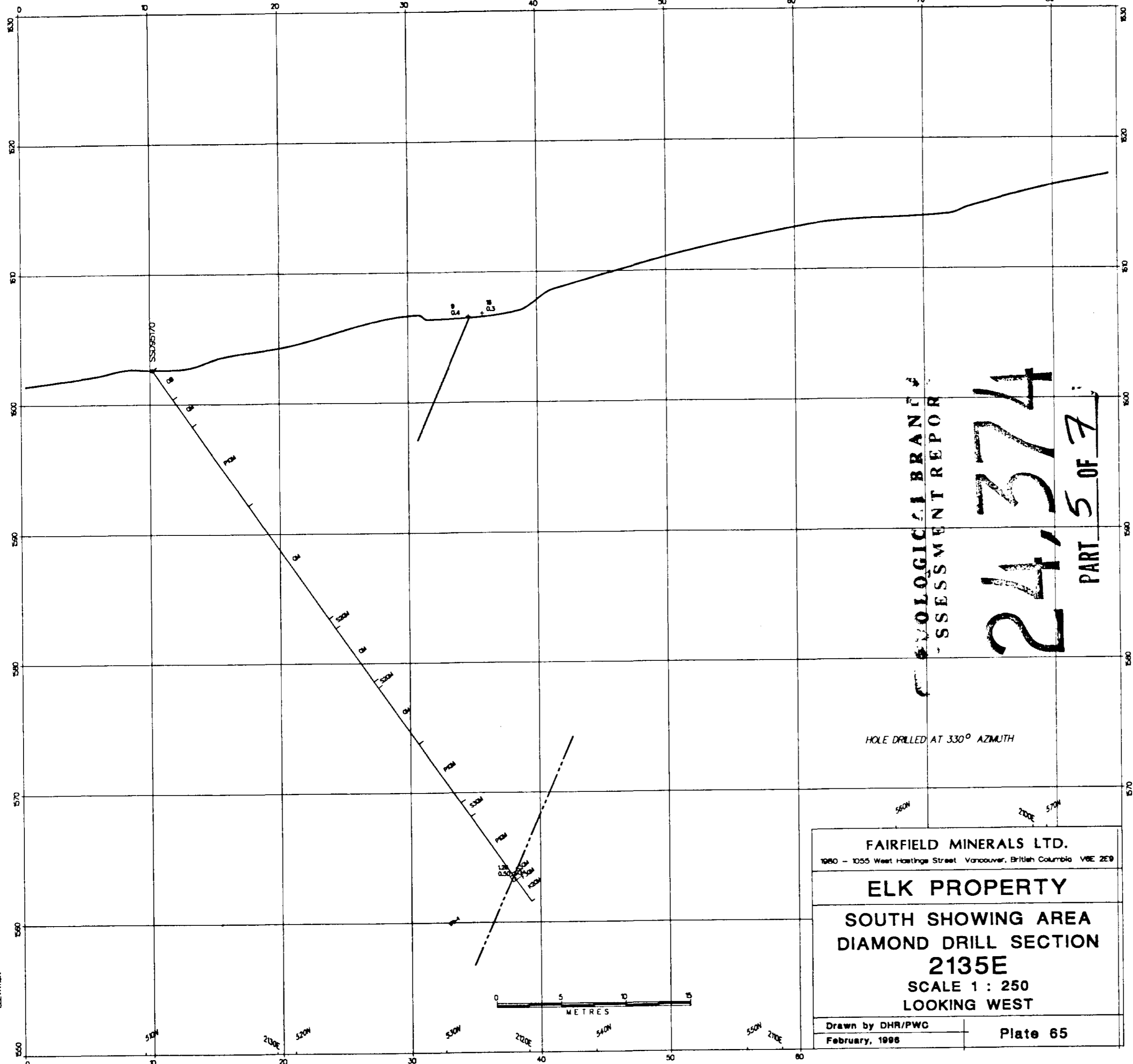
HOLES DRILLED AT 330° AZIMUTH

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**ELK PROPERTY**  
**SOUTH SHOWING AREA**  
**DIAMOND DRILL SECTION**  
**1817E**  
 SCALE 1 : 150  
 LOOKING WEST

Drawn by DHR/PWC  
 February, 1998

Plate 64

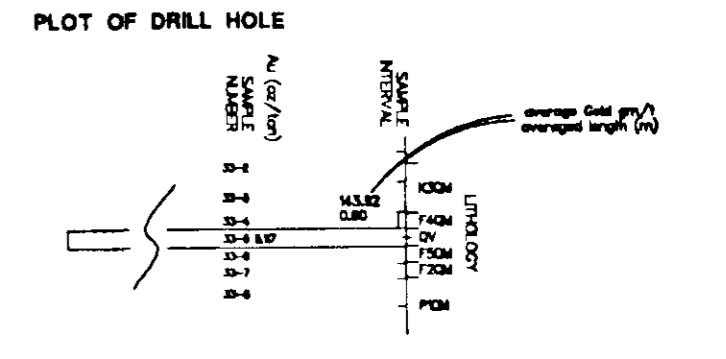


**LEGEND**

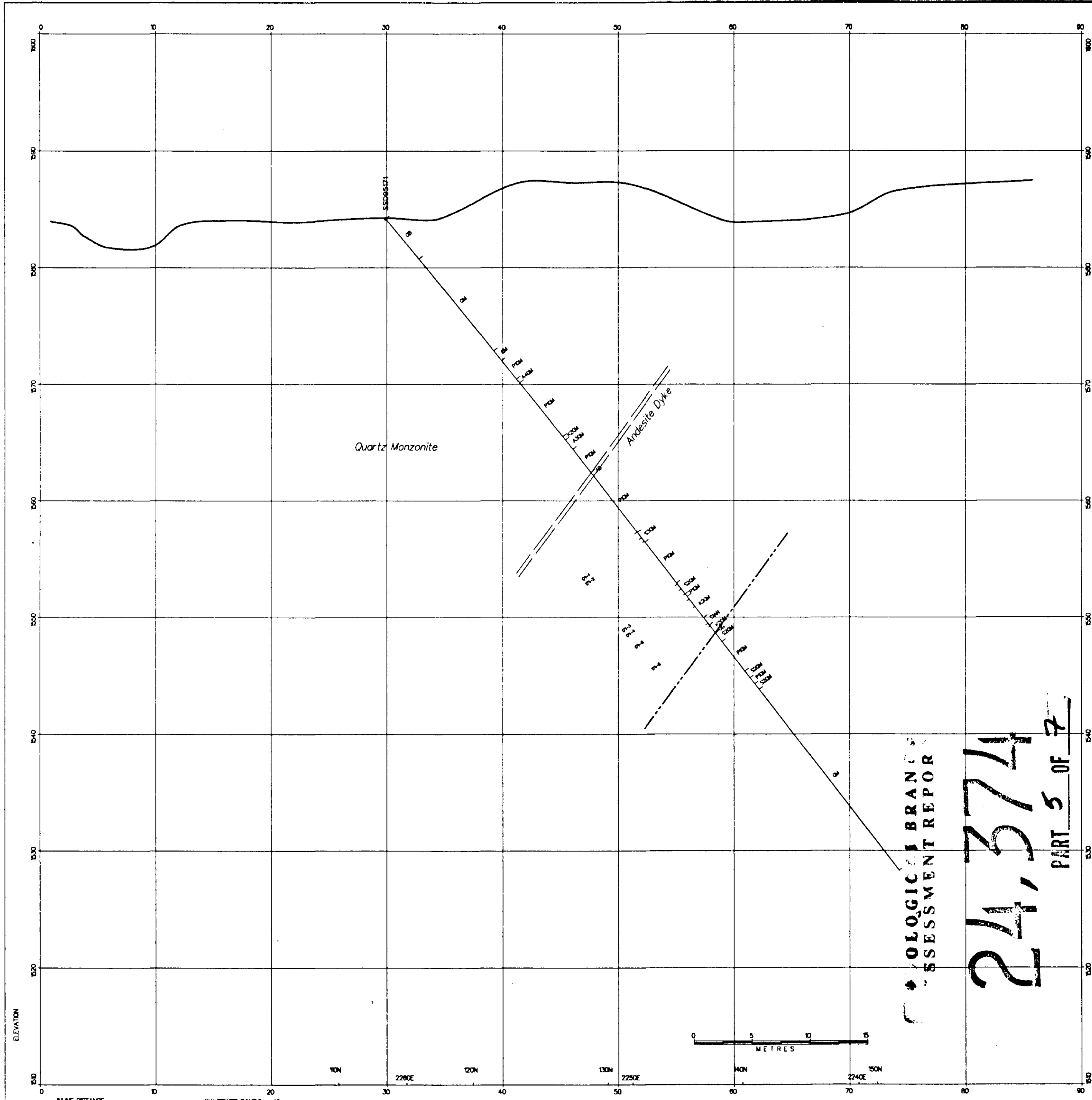
- LITHOLOGY**
- CS CASING
  - M MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive green, fine-grained to weakly porphyritic
  - AN ANDESITE dark greyish-green to olive green, fine-grained
  - FP FELDSPAR PORPHYRY light to medium grey or brown matrix, with 5% to 30 % k-spar phenocrysts from 1mm to 5mm; locally foliated
  - (SP) SPARSE PORPHYRY as above; less than 5% phenocrysts
  - QP QUARTZ - FELDSPAR PORPHYRY light to medium grey, with 5% to 30% quartz and k-spar phenocrysts to 1mm
  - BR BRECCIA fragmented rock in a clay or clay-chlorite rich matrix; commonly grades into gouge
  - GC GOUGE clay-rich with numerous rock fragments; shear foliation or banding may be evident
  - DB DIATREME BRECCIA andesite, granitic, and quartz vein fragments in a granitic matrix or quartz-cemented; commonly containing 1% to 10% sulfide minerals
  - QV QUARTZ VEIN white to grey quartz with some chlorite; commonly 5% to 20% pyrite with lesser chalcopyrite, pyrrhotite, sphalerite, galena, tetrahedrite, arsenopyrite; rare visible gold
- JURASSIC**
- OSPREY LAKE BATHOLITH
- AP APLITE pink to light grey, fine grained, saccharic, may grade into pegmatite
  - GR GRANITE pink to pinkish orange, coarse grained, quartz and k-spar rich with some hornblende or biotite
  - PG PEGMATITE pink to light grey, very coarse grained to megacrystic; quartz - k-spar - muscovite rich
  - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende

- ALTERATION CODES**
- |      |                      |      |              |
|------|----------------------|------|--------------|
| P(A) | ARGILlic             | P(N) | PROPYLITIC   |
| P(X) | PHYLIC               | S(N) | SEROTIC      |
| K(N) | K-spar STABLE PHYLIC | SK   | SKARN        |
| P(K) | POTASSIC             | S(X) | SILIFICATION |
- (n = 1 TO 3, WEAK TO INTENSE)
- SULFIDE CONTENT CODES (quartz veins)**
- |   |                          |
|---|--------------------------|
| 1 | less than 1% sulfide     |
| 2 | 1% to 5% sulfide         |
| 3 | 5% to 10% sulfide        |
| 4 | 10% to 20% sulfide       |
| 5 | 20% to 30% sulfide       |
| 6 | greater than 30% sulfide |

- SYMBOLS**
- LITHOLOGIC CONTACT
  - TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones labeled on sections)
  - - - - - FAULT OR SHEAR
  - ..... DIATREME BRECCIA



NOTE: GOLD ASSAYS AND AVERAGES < 0.05 g/t NOT POSTED



**LEGEND**

**LITHOLOGY**

- CS CASING
  - M MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive green, fine-grained to weakly porphyritic
  - AN ANDESITE dark greyish-green to olive green, fine-grained
  - FP FELDSPAR PORPHYRY light to medium gray or brown matrix, with 5% to 30 % k-spar phenocrysts from 1mm to 5mm, locally foliated
  - (SP) SPHALL PORPHYRY as above, less than 5% phenocrysts
  - QP QUARTZ - FELDSPAR PORPHYRY light to medium gray, with 5% to 30% quartz and k-spar phenocrysts to 1mm
  - BR BRECCIA fragmented rock in a clay or clay-chlorite rich matrix commonly graded into gouge
  - GG GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - DB DIATREME BRECCIA andesite, granitic, and quartz vein fragments in a granitic matrix or quartz-carbonated, commonly containing 5% to 10% sulfide minerals
  - QV QUARTZ VEIN white to gray quartz with some chlorite, commonly 5% to 20% pyrite with lesser chalcopyrite, pyrrhotite, sphalerite, galena, tetrahedrite, arsenopyrite, rare visible gold
- JURASSIC**
- OSPREY LAKE BATHOLITH
- AP APLITE pink to light gray, fine grained, aurotic, may grade into pegmatite
  - GR GRANITE pink to pinkish orange, coarse grained, quartz and k-spar rich with some hornblende or biotite
  - PG PEGMATITE pink to light gray, very coarse grained to megacrystic, quartz - k-spar - muscovite rich
  - QM QUARTZ MONZONITE light to medium pinkish gray, coarse grained equigranular with up to 15% biotite or hornblende

**ALTERATION CODES**

- A(n) ARGILIC
  - P(n) PLYLIC
  - PK K-spar STABLE PHYLIC
  - K(n) POTASSIC
  - P(n) PROPYLITIC
  - S(n) SEROTIC
  - SK SKARN
  - X(n) SILICIFICATION
- (n = 1 TO 5, WEAK TO INTENSE)

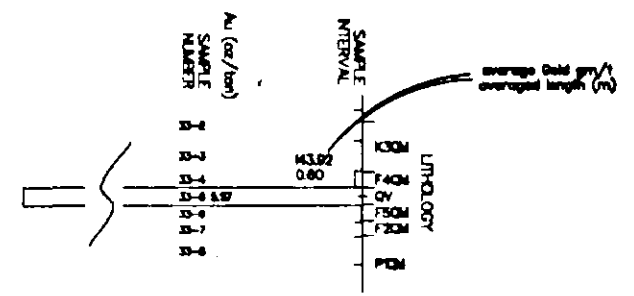
**SULFIDE CONTENT CODES (quartz veins)**

- V1 less than 5% sulfide
- V2 5% to 10% sulfide
- V3 10 - 20% sulfide
- V4 20 - 30% sulfide
- V5 greater than 30% sulfide

**SYMBOLS**

- LITHOLOGIC CONTACT
- TRACE OF MINERALIZED STRUCTURE (line types differ by zone, individual zones labeled on sections)
- - - - - FAULT OR SHEAR
- ..... DIATREME BRECCIA

**PLOT OF DRILL HOLE**



NOTE: GOLD ASSAYS AND AVERAGES < 0.05 oz/ton NOT POSTED

**FAIRFIELD MINERALS LTD.**  
1980 - 1055 West Hastings Street Vancouver, British Columbia V6E 2E9

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**ELK PROPERTY**

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**SOUTH SHOWING AREA  
DIAMOND DRILL SECTION  
2260E  
SCALE 1 : 250  
LOOKING WEST**

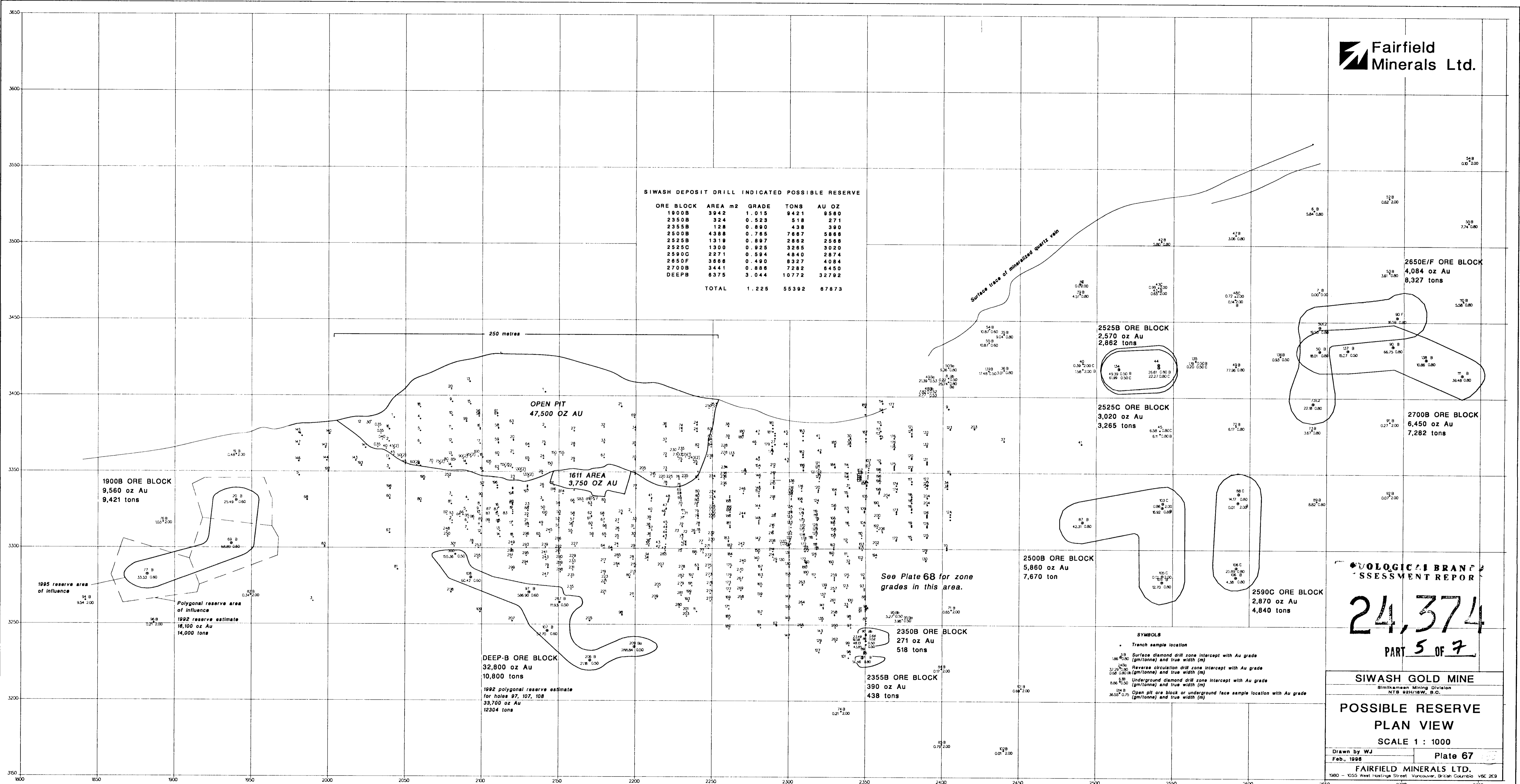
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Drawn by DHR/PWC Plate 66

February, 1996

**SIWASH DEPOSIT DRILL INDICATED POSSIBLE RESERVE**

ORE BLOCK	AREA m2	GRADE	TONS	AU OZ
1900B	3942	1.015	9421	9560
2350B	324	0.523	518	271
2355B	128	0.890	438	390
2500B	4388	0.765	7667	5868
2525B	1318	0.897	2892	2588
2525C	1300	0.925	3285	3020
2590C	2271	0.594	4840	2874
2650F	3868	0.490	8327	4084
2700B	3441	0.888	7282	6450
DEEPB	6375	3.044	10772	32792
<b>TOTAL</b>	<b>1.225</b>		<b>55392</b>	<b>67873</b>



OPEN PIT  
47,500 OZ AU

1611 AREA  
3,750 OZ AU

1900B ORE BLOCK  
9,560 oz Au  
9,421 tons

DEEP-B ORE BLOCK  
32,800 oz Au  
10,800 tons

1992 polygonal reserve estimate  
for holes 97, 107, 108  
33,700 oz Au  
12304 tons

2525B ORE BLOCK  
2,570 oz Au  
2,862 tons

2525C ORE BLOCK  
3,020 oz Au  
3,265 tons

2500B ORE BLOCK  
5,860 oz Au  
7,670 tons

2350B ORE BLOCK  
271 oz Au  
518 tons

2355B ORE BLOCK  
390 oz Au  
438 tons

2650E/F ORE BLOCK  
4,084 oz Au  
8,327 tons

2700B ORE BLOCK  
6,450 oz Au  
7,282 tons

2590C ORE BLOCK  
2,870 oz Au  
4,840 tons

See Plate 68 for zone  
grades in this area.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**24,374**  
PART 5 OF 7

- SYMBOLS**
- Trench sample location
  - Surface diamond drill zone intercept with Au grade (gm/tonne) and true width (m)
  - Reverse circulation drill zone intercept with Au grade (gm/tonne) and true width (m)
  - Underground diamond drill zone intercept with Au grade (gm/tonne) and true width (m)
  - Open pit ore block or underground face sample location with Au grade (gm/tonne) and true width (m)

**SIWASH GOLD MINE**  
Bimikameen Mining Division  
NTB 92H/18W, B.C.

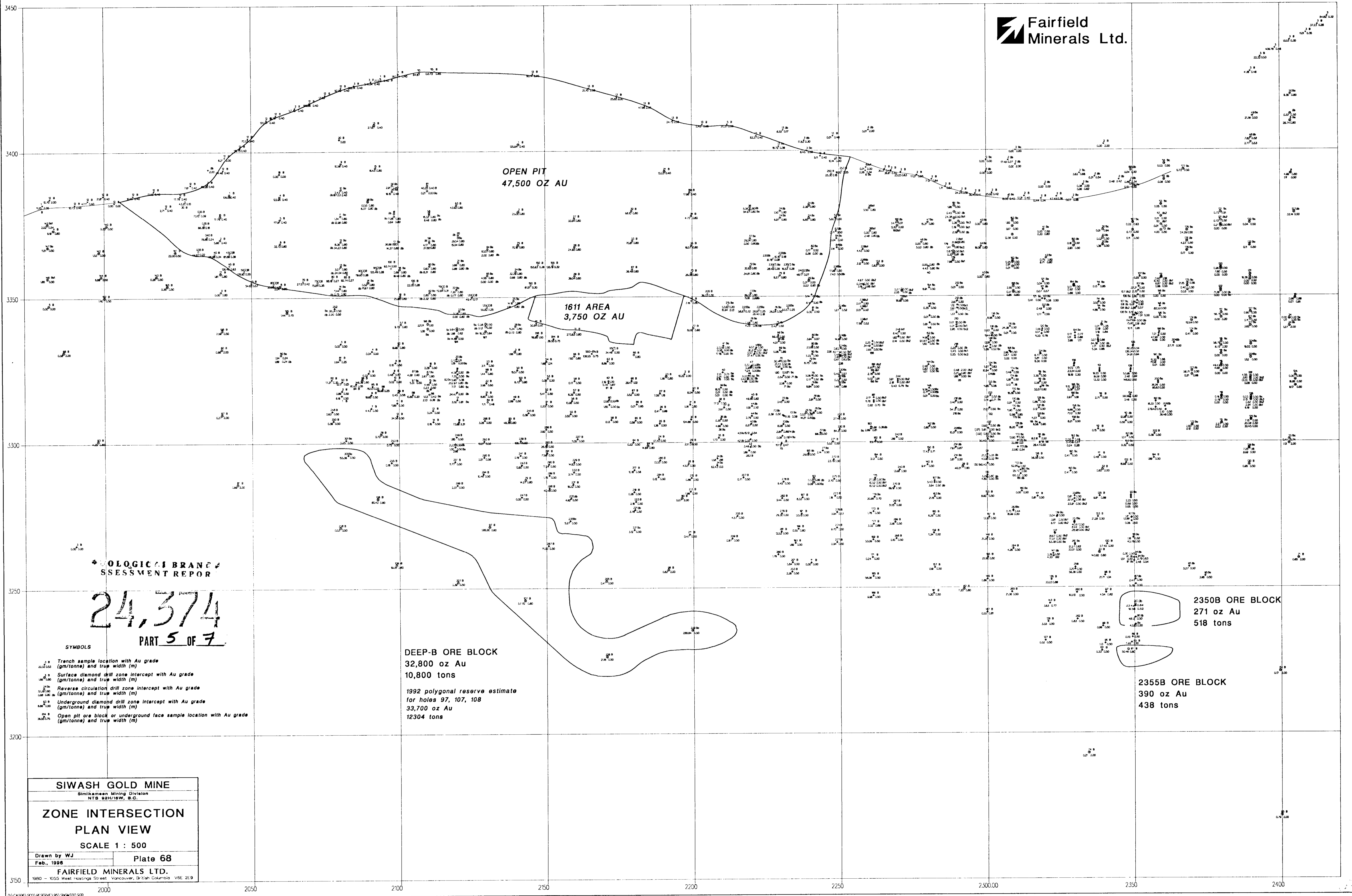
**POSSIBLE RESERVE  
PLAN VIEW**  
SCALE 1 : 1000

Drawn by WJ  
Feb., 1998

**Plate 67**

**FAIRFIELD MINERALS LTD.**  
1980 - 1055 West Hastings Street, Vancouver, British Columbia V6E 2E9





LOGICAL BRANC  
ASSESSMENT REPOR

24,374  
PART 5 OF 7

- SYMBOLS**
- 2# Trench sample location with Au grade (gm/tonne) and true width (m)
  - 2# Surface diamond drill zone intercept with Au grade (gm/tonne) and true width (m)
  - 2# Reverse circulation drill zone intercept with Au grade (gm/tonne) and true width (m)
  - 2# Underground diamond drill zone intercept with Au grade (gm/tonne) and true width (m)
  - 2# Open pit ore block or underground face sample location with Au grade (gm/tonne) and true width (m)

**DEEP-B ORE BLOCK**  
32,800 oz Au  
10,800 tons

1992 polygonal reserve estimate  
for holes 97, 107, 108  
33,700 oz Au  
12304 tons

**2350B ORE BLOCK**  
271 oz Au  
518 tons

**2355B ORE BLOCK**  
390 oz Au  
438 tons

**SIWASH GOLD MINE**  
Similkameen Mining Division  
NTS 92H/18W, B.C.

**ZONE INTERSECTION  
PLAN VIEW**

SCALE 1 : 500

Drawn by WJ  
Feb., 1998

Plate 68

**FAIRFIELD MINERALS LTD.**  
1980 - 1055 West Hastings Street, Vancouver, British Columbia V6E 2E9