

1990  
DRILLING, TRENCHING, GEOCHEMICAL & GEOPHYSICAL  
REPORT on the ELK PROPERTY

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

MAY, 1991 (BC Assessment Report)  
VOLUME II: PLATES

This report consists of two volumes:

Volume I:	Text
Volume II:	Plates
Volume III:	Appendices

REPORT DISTRIBUTION

Government :	2
Fairfield :	1
Placer Dome:	2
Field :	1
Extra copy :	1
Cordilleran:	<u>Original</u>
Total:	8 reports

*Part 2 of 3*  
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

21,443

1990

**DRILLING, TRENCHING, GEOCHEMICAL & GEOPHYSICAL REPORT**

**ON THE ELK PROPERTY**

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

For

**FAIRFIELD MINERALS LTD.**  
Vancouver, British Columbia

and

**PLACER DOME INC.**  
Vancouver, British Columbia

W. Jakubowski, B.Sc.

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

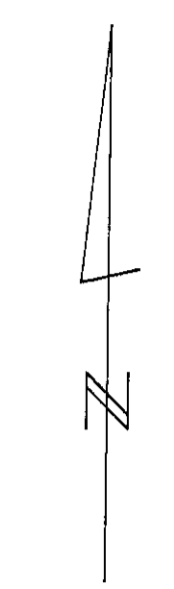
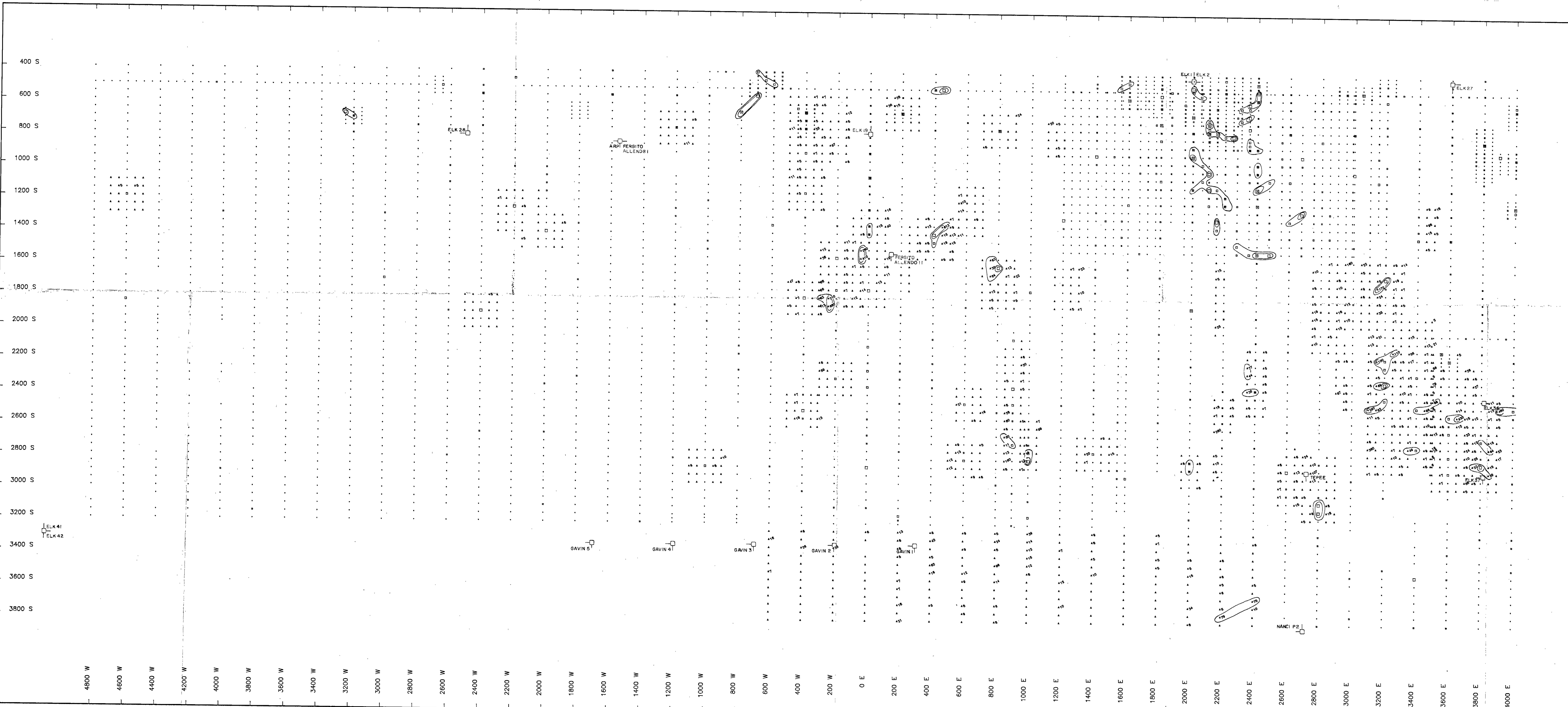
Date Submitted: May, 1991  
Field Period: May 29 to November 2, 1990

Table of Contents

VOLUME II

PLATES  
(in pockets)

	<u>Scale</u>
<u>Plate 1:</u> Elk South Area Soil Geochemistry .....	1:10000
<u>Plate 2:</u> Siwash Lake Area Soil Geochemistry .....	1: 2500
 <u>Siwash North Area:</u>	
<u>Plate 3:</u> - Compilation Map .....	1: 1000
<u>Plate 4:</u> - Trench Plan West Half .....	1: 500
<u>Plate 5:</u> - Trench Plan East Half .....	1: 500
<u>Plate 6:</u> - Map Area A, Stripped Area Geology .....	1: 200
<u>Plate 7:</u> - Map Area B, Stripped Area Geology .....	1: 200
<u>Plate 8:</u> - Map Area C, Stripped Area Geology .....	1: 200
<u>Plate 9:</u> - Map Area D, Stripped Area Geology .....	1: 200
 <u>Siwash Lake Area:</u>	
<u>Plate 10:</u> - Compilation Map .....	1: 2000
<u>Plate 11:</u> - Trench Plan North Area .....	1: 500
<u>Plate 12:</u> - Trench Plan South Area .....	1: 500
<u>Plate 13:</u> - Siwash Connector Area Trench Plan .....	1: 500
<u>Plate 14:</u> Siwash North Area Drill Section 1940E .....	1: 250
<u>Plate 15:</u> Siwash North Area Drill Section 1990E .....	1: 250
<u>Plate 16:</u> Siwash North Area Drill Section 2040E .....	1: 250
<u>Plate 17:</u> Siwash North Area Drill Section 2090E .....	1: 250
<u>Plate 18:</u> Siwash North Area Drill Section 2140E .....	1: 250
<u>Plate 19:</u> Siwash North Area Drill Section 2190E .....	1: 250
<u>Plate 20:</u> Siwash North Area Drill section 2240E .....	1: 250
<u>Plate 21:</u> Siwash North Area Drill section 2290E .....	1: 250
<u>Plate 22:</u> Siwash North Area Drill section 2340E .....	1: 250
<u>Plate 23:</u> Siwash North Area Drill Section 2405E .....	1: 250
<u>Plate 24:</u> Siwash North Area Drill Section 2440E .....	1: 250
<u>Plate 25:</u> Siwash North Area Drill Section 2490E .....	1: 250
<u>Plate 26:</u> Siwash North Area Drill section 2540E .....	1: 250
<u>Plate 27:</u> Siwash North Area Drill section 2590E .....	1: 250
<u>Plate 28:</u> Siwash North Area Drill section 2640E .....	1: 250
<u>Plate 29:</u> Siwash North Area Drill section 2690E .....	1: 250
<u>Plate 30:</u> Siwash North Area Drill Section 2740E .....	1: 250
<u>Plate 31:</u> Siwash North Area Drill section 3300N .....	1: 250
<u>Plate 32:</u> Siwash North Area Drill section 3400N .....	1: 250
<u>Plate 33:</u> Siwash Lake Area Drill Section 2410E .....	1: 250
<u>Plate 34:</u> Siwash Lake Area Drill Section 2555E .....	1: 250
<u>Plate 35:</u> Siwash North Area Zone B Plane of Vein with Reserve Polygons ..	1: 1500
<u>Plate 36:</u> Siwash North Area Zone C plane of Vein with Reserve Polygons ..	1: 1500



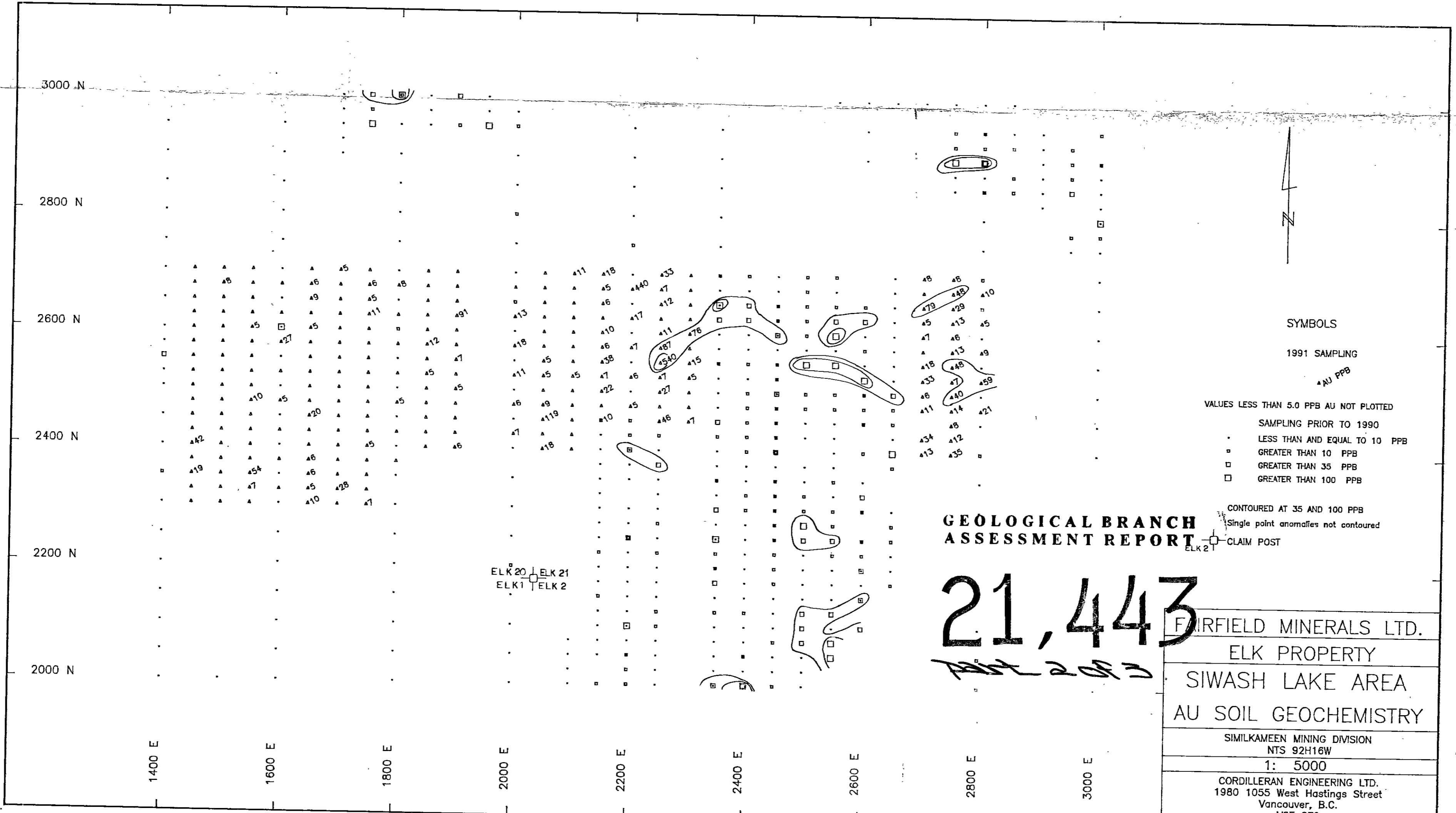
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**21,443**  
*2003*

SYMBOLS  
1990 SAMPLING  
▲ AU PPB  
VALUES LESS THAN 5.0 PPB AU NOT PLOTTED

SAMPLING PRIOR TO 1990  
● LESS THAN AND EQUAL TO 10 PPB  
○ GREATER THAN 10 PPB  
□ GREATER THAN 35 PPB  
◻ GREATER THAN 100 PPB  
CONTOURED AT 35 AND 100 PPB  
(single point anomalies not contoured)  
GAVIN □ CLAIM POST

<p>FAIRFIELD MINERALS LTD. ELK PROPERTY SOUTH AREA GOLD SOIL GEOCHEMISTRY</p>
<p>Similkameen Mining Division NTS 92H16W 1: 10000</p>
<p>CORDILLERAN ENGINEERING LTD. 1980 1055 West Hastings Street Vancouver, B.C. V6E 2E9</p>



**SYMBOLS**

1991 SAMPLING

▲ AU PPB

VALUES LESS THAN 5.0 PPB AU NOT PLOTTED

SAMPLING PRIOR TO 1990

- LESS THAN AND EQUAL TO 10 PPB
- ◻ GREATER THAN 10 PPB
- ◻ GREATER THAN 35 PPB
- ◻ GREATER THAN 100 PPB

CONTOURED AT 35 AND 100 PPB

Single point anomalies not contoured

◻ CLAIM POST

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**21,443**

*FEB 20 1990*

FAIRFIELD MINERALS LTD.  
ELK PROPERTY  
SIWASH LAKE AREA  
AU SOIL GEOCHEMISTRY

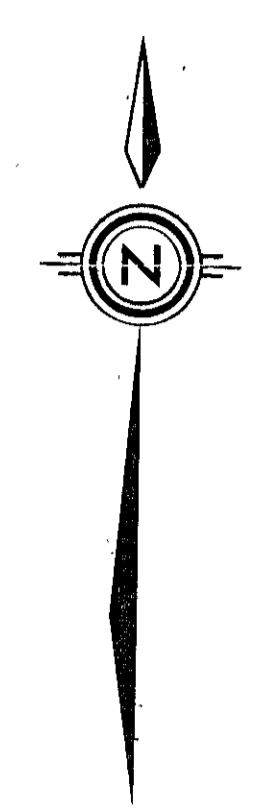
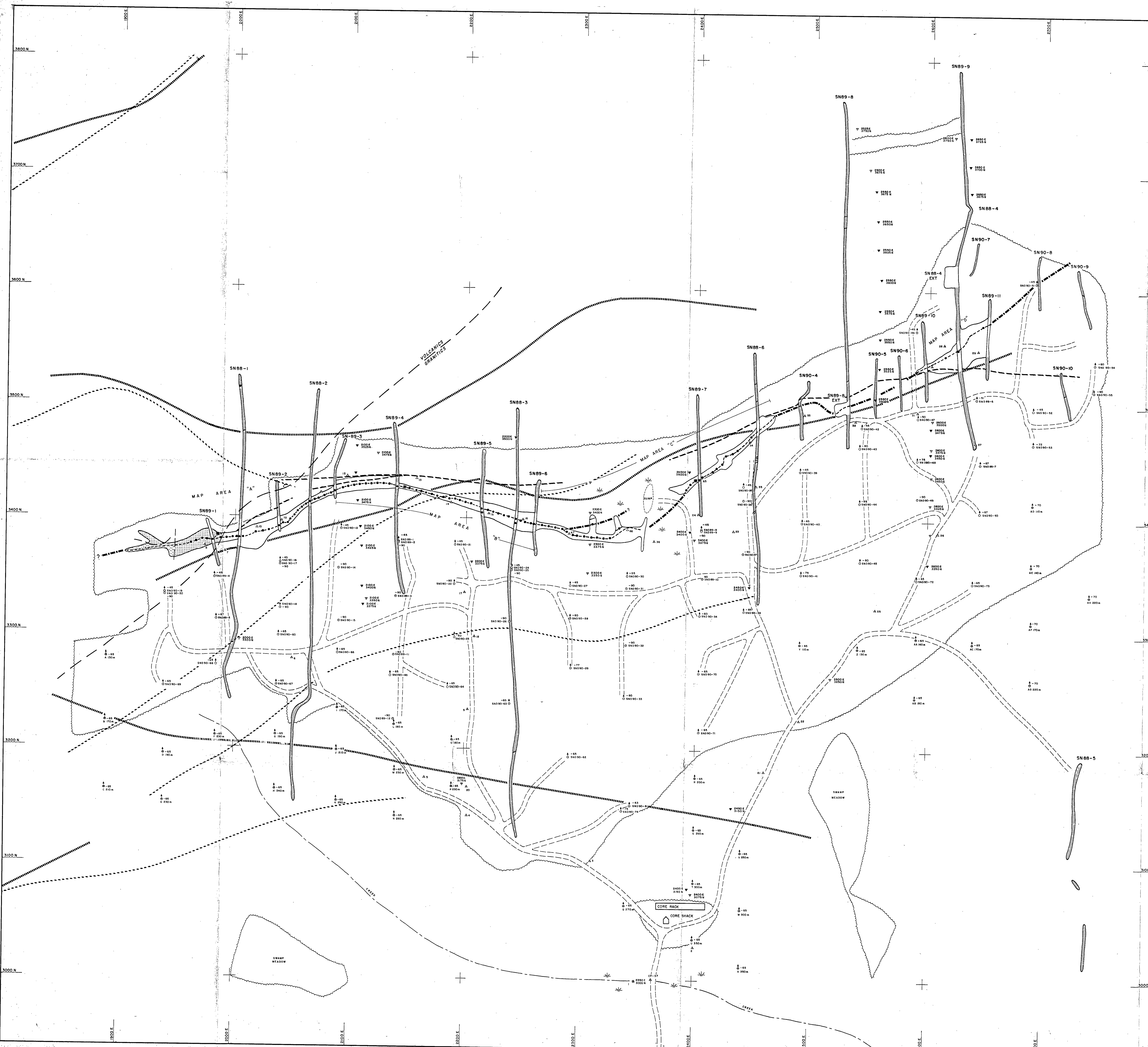
SIMILKAMEEN MINING DIVISION  
NTS 92H16W

1: 5000

CORDILLERAN ENGINEERING LTD.  
1980 1055 West Hastings Street  
Vancouver, B.C.  
V6E 2E9

FEB. 1990

PLATE 2



- LEGEND**
- OVERBURDEN
  - TERTIARY**
  - QUARTZ VEINS
  - ANDESITE DYKE: dark greyish green to olive green, fine grained to weakly porphyritic
  - JURASSIC**
  - ISMAY LAKE BATHOLITH
  - GRANITE ROCKS: QUARTZ MONZONITE: light to medium pinkish grey, coarse grained equigranular, to 15% biotite; GRANDIORITE: medium grey, fine to medium grained, to 25% biotite or hornblende
  - APLITE: fine grained with occasional pegmatitic veins; pink to light grey
  - TRIASSIC**
  - NICOLA GROUP VOLCANICS: andesitic; dark greyish green, fine grained to porphyritic with 25% amphibole, pyroxene and/or plagioclase phenocrysts
  - SYMBOLS**
  - trench / striped area outline, shading indicates that trench is backfilled
  - lithological contact
  - surface trace of mineralized structure
  - VLF-EM anomaly
  - magnetic contact
  - survey control point, number
  - existing diamond drill hole collar, proposed drill hole-dip, depth
  - surveyed geophysics station
  - surveyed soil sample station - coordinate
  - road
  - edge of clearcut
  - trace of mineralized zone
  - significant sample location
  - bulk sample location

GEOLOGICAL BRANCH  
ASSESSMENT REPORT  
**21,443**  
2083

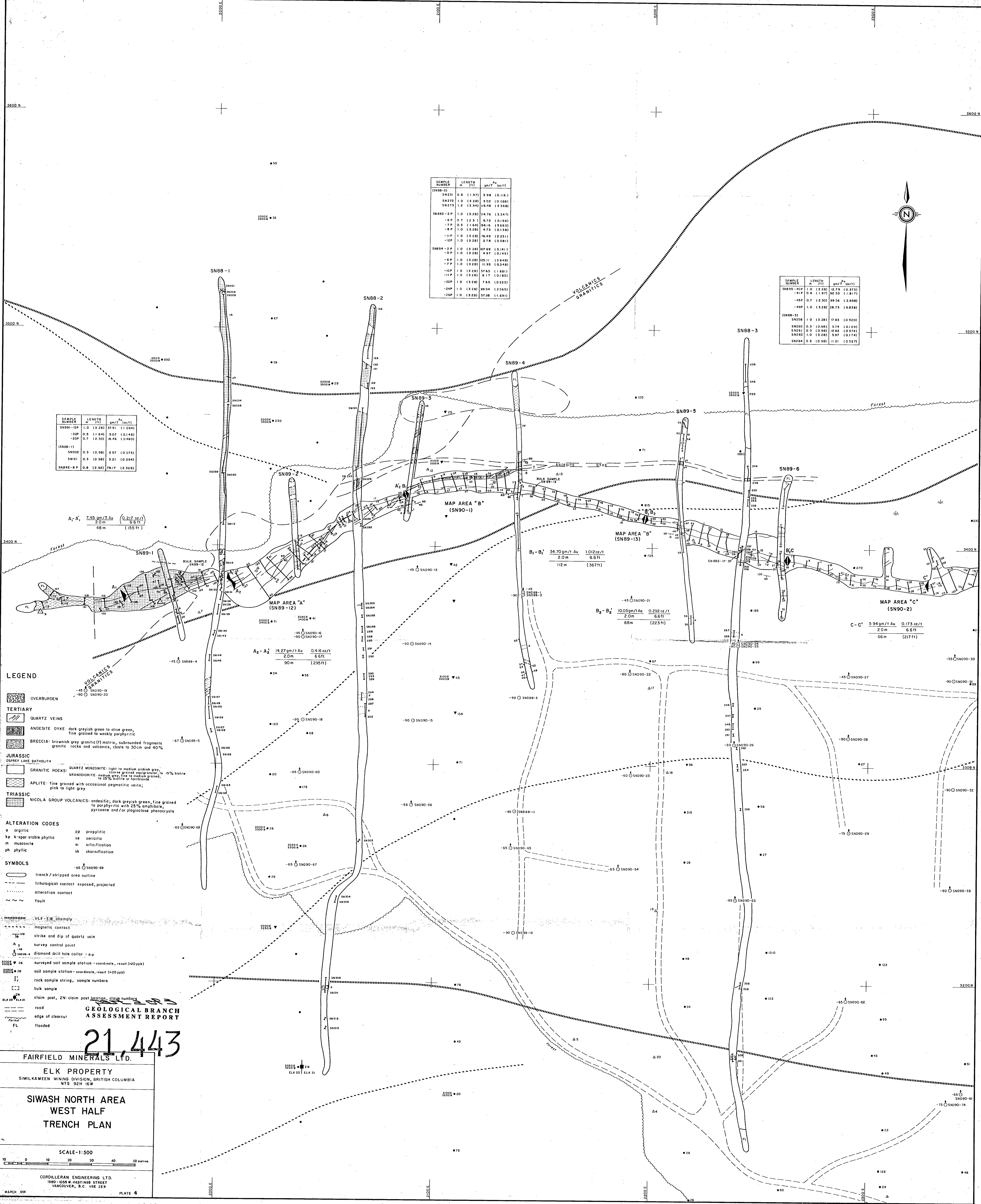
FAIRFIELD MINERALS LTD.  
ELK PROPERTY  
SIMILKAMEEN MINING DIVISION, BRITISH COLUMBIA  
NTS 224 15W

**SIWASH NORTH AREA  
COMPILATION MAP**

SCALE-1:1000  
0 10 20 30 40 50 metres

CORDILLERAN ENGINEERING LTD.  
390-1025 W. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9

MARCH 1991 PLATE 3



SAMPLE NUMBER	LENGTH (m)	gms	Au (g/t)
SN88-2-1	0.6 (1.97)	3.98	(0.116)
SN88-2-2	1.0 (3.28)	3.02	(0.088)
SN88-2-3	1.2 (3.94)	15.48	(3.368)
SN89-2-P	1.0 (3.28)	14.76	(3.347)
-8-P	0.7 (2.3)	6.72	(0.196)
-7-P	0.5 (1.64)	16.76	(5.663)
-8-P	1.0 (3.28)	4.73	(0.138)
-11-P	1.0 (3.28)	16.49	(2.231)
-12-P	1.0 (3.28)	2.74	(0.081)
SN89-4-2-P	1.0 (3.28)	10.68	(3.141)
-3-P	1.0 (3.28)	4.97	(0.145)
-8-P	1.0 (3.28)	25.11	(3.649)
-7-P	1.0 (3.28)	11.99	(3.648)
-10-P	1.0 (3.28)	11.63	(1.661)
-11-P	1.0 (3.28)	6.17	(0.180)
-22-P	1.0 (3.28)	7.65	(0.223)
-24-P	1.0 (3.28)	89.94	(2.565)
-26-P	1.0 (3.28)	37.98	(1.091)

SAMPLE NUMBER	LENGTH (m)	gms	Au (g/t)
SN89-5-40P	1.0 (3.28)	12.79	(0.373)
-41P	0.6 (1.97)	82.20	(1.817)
-45P	0.7 (2.30)	89.36	(2.898)
-48P	1.0 (3.28)	28.73	(0.888)
SN88-3-1	1.0 (3.28)	17.89	(0.520)
SN88-3-2	0.3 (0.98)	3.74	(0.109)
SN88-3-3	0.3 (0.98)	18.82	(0.374)
SN88-3-4	1.0 (3.28)	5.97	(0.174)
SN88-3-5	0.3 (0.98)	11.21	(0.327)

SAMPLE NUMBER	LENGTH (m)	gms	Au (g/t)
SN89-1-SP	1.0 (3.28)	37.51	(1.094)
-22P	0.5 (1.64)	5.07	(0.148)
-23P	0.7 (2.30)	16.46	(0.480)
SN88-1-1	0.3 (0.98)	2.57	(0.075)
SN88-1-2	0.3 (0.98)	3.21	(0.094)
SN89-2-R-P	0.8 (2.62)	78.17	(2.303)

A<sub>1</sub>-A<sub>1</sub> 7.45 gm/1 Au (2.17 oz/1)  
2.0m (6.6ft)  
48m (155ft)

B<sub>1</sub>-B<sub>1</sub> 34.70 gm/1 Au 1.012oz/1  
2.0m (6.6ft)  
112m (367ft)

B<sub>2</sub>-B<sub>2</sub> 10.03 gm/1 Au 0.292oz/1  
2.0m (6.6ft)  
68m (223ft)

C-C' 5.94 gm/1 Au 0.173oz/1  
2.0m (6.6ft)  
66m (217ft)

- LEGEND**
- OVERBURDEN
  - TERTIARY
    - QUARTZ VEINS
    - ANDESITE DYKE: dark greyish green to olive green, fine grained to weakly porphyritic
    - BRECCIA: brownish grey granitic(?) matrix, subrounded fragments granitic rocks and volcanics, clasts to 30cm and 40%
  - JURASSIC OSPREY LAKE BATHOLITH
    - QUARTZ MONZONITE: light to medium pinkish grey, coarse grained equigranular, to 15% biotite to 25% plagioclase and hornblende
    - GRANODIORITE: medium grey, fine to medium grained
    - APLITE: fine grained with occasional pegmatitic veins; pink to light grey
  - TRIASSIC NICOLA GROUP VOLCANICS: andesitic; dark greyish green, fine grained to porphyritic with 25% amphibole, pyroxene and/or plagioclase phenocrysts
- ALTERATION CODES**
- a argillic
  - kp k-spar stable phyllic
  - m muscovite
  - ph phyllic
  - pp propylitic
  - se sericitic
  - si silicification
  - sk skarnification
- SYMBOLS**
- 65 SND90-69 trench/stripped area outline
  - lithological contact exposed, projected
  - alteration contact
  - fault
  - VLF-EM anomaly
  - magnetic contact
  - strike and dip of quartz vein
  - survey control point
  - diamond drill hole collar - dip
  - surveyed soil sample station - coordinate, result (SND90-xx)
  - soil sample station - coordinate, result (SND90-xx)
  - rock sample string, sample numbers
  - bulk sample
  - claim post, 2N: claim post location, claim numbers
  - road
  - edge of clearcut
  - flooded

GEOLOGICAL BRANCH ASSESSMENT REPORT

21,443

FAIRFIELD MINERALS LTD.  
ELK PROPERTY  
SIMILKAMEEN MINING DIVISION, BRITISH COLUMBIA  
NTS 92H 16W

SIWASH NORTH AREA  
WEST HALF  
TRENCH PLAN

SCALE-1:500

CORDILLERAN ENGINEERING LTD.  
1890-1055 W. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9

MARCH 1998 PLATE 4



SAMPLE NUMBER	LENGTH m (ft)	gms/g (oz./lb)
SN897-18P	1.0 (3.28)	16.47 (0.592)
-21P	0.6 (1.97)	37.87 (1.353)
-22P	1.0 (3.28)	56.45 (1.995)
-102P	1.2 (3.94)	85.27 (3.027)
-103P	1.2 (3.94)	88.57 (3.127)
-106P	0.7 (2.30)	8.60 (0.305)
SN89-61	0.5 (1.64)	4.05 (0.143)
SN 403	1.2 (3.94)	8.43 (0.299)
SN89-56P	1.0 (3.28)	3.72 (0.132)
-63P	1.0 (3.28)	26.06 (0.926)
-120P	1.0 (3.28)	2.99 (0.106)
SN89-203	1.0 (3.28)	2.03 (0.072)
-213P	0.52 (1.71)	4.08 (0.145)
SN906-6P	1.07 (3.51)	4.21 (0.150)

SAMPLE NUMBER	LENGTH m (ft)	gms/g (oz./lb)
SN890-2	1.0 (3.28)	3.93 (0.139)
SN89-41	0.8 (2.62)	10.80 (0.383)
SN327	0.5 (1.64)	43.72 (1.559)
SN328	0.5 (1.64)	12.72 (0.452)
SN329	0.4 (1.31)	6.48 (0.230)
SN8911-6	1.0 (3.28)	4.87 (0.172)
-11	0.6 (1.97)	3.57 (0.126)
-12	1.0 (3.28)	10.63 (0.378)
-17	1.0 (3.28)	5.97 (0.212)
SN894-69P	1.0 (3.28)	6.27 (0.223)
-71P	1.0 (3.28)	15.46 (0.547)
-73P	1.0 (3.28)	2.40 (0.085)
-74P	1.0 (3.28)	2.16 (0.076)
-78P	1.0 (3.28)	2.02 (0.072)
-79P	1.0 (3.28)	9.36 (0.332)

MAP AREA "C"  
(SN90-3)

C-C'  
9.39gms Au 0.274oz/l  
2.0m 6.61  
77m (252ft)

MAP AREA "D"  
(SN89-14)

**LEGEND**

OVERBURDEN

**TERTIARY**

QUARTZ VEINS

ANDESITE DYKE: dark greyish green to olive green, fine grained to weakly porphyritic

BRECCIA: brownish grey granitic (?) matrix, subrounded fragments granitic rocks and volcanics, clasts to 30cm and 40%

**JURASSIC**

OSPREY LAKE BATHOLITH

GRANITIC ROCKS: QUARTZ MONZONITE: light to medium pinkish grey, coarse grained, irregular, to 15% biotite

GRANODIORITE: medium grey, fine to medium grained, to 25% biotite or hornblende

APLITE: fine grained with occasional pegmatitic veins; pink to light grey

**TRIASSIC**

NICOLA GROUP VOLCANICS: andesitic; dark greyish green, fine grained to porphyritic with 25% amphibole, pyroxene and/or plagioclase phenocrysts

**ALTERATION CODES**

o argillic pp propylitic

kp k-spar stable phyllic ss sericitic

m muscovite si silicification

ph phyllic sk skarnification

**SYMBOLS**

trench / stripped area outline

lithological contact exposed, projected

alteration contact

fault

VLF-EM anomaly

magnetic contact

strike and dip of quartz vein

survey control point

surveyed soil sample station - coordinate, result (>20ppb)

soil sample station - coordinate, result (>20ppb)

rock sample, sample numbers

bulk sample

road

diamond drill hole collar

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**21,443**

FAIRFIELD MINERALS LTD.

ELK PROPERTY  
SIMILKAMEEN MINING DIVISION, BRITISH COLUMBIA  
NTS 92H 16W

**SIWASH NORTH AREA  
EAST HALF  
TRENCH PLAN**

SCALE-1:500

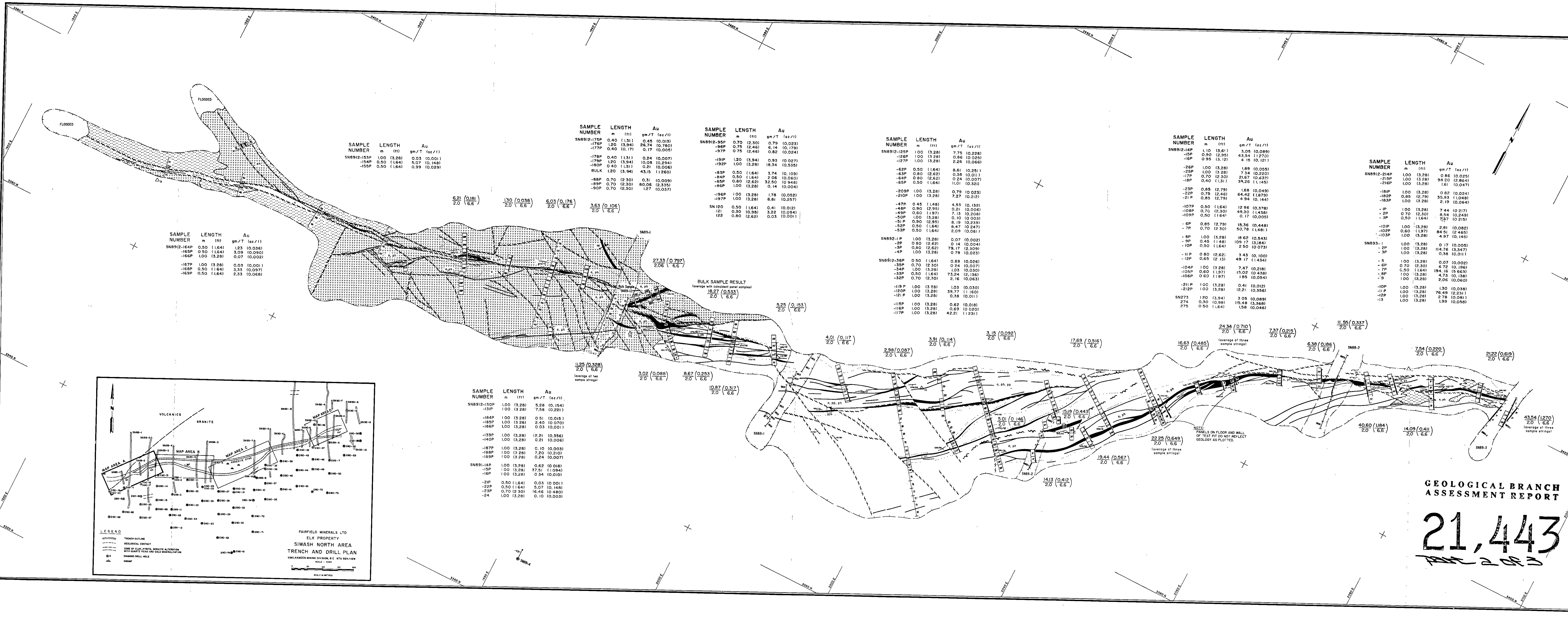
CORDILLERAN ENGINEERING LTD.  
1980 - 1055 W. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9

MARCH 1991 **PLATE 5**



LEGEND

- TERTIARY
  - QUARTZ VEINS: STRIKE AND DIP
  - ANDESITE DYKE: dark green green to olive green, fine grained to weakly porphyritic
  - BRECCIA: brownish gray granitic (?) matrix, rounded fragments of granitic rocks and volcanics, clasts to 30 cm and 40%
- JURASSIC
  - OSPREY LAKE BATHOLITH
    - GRANITIC ROCKS: QUARTZ MONZONITE (light to medium pinkish gray, coarse grained assemblage, to about 10% biotite, BRANDORITE, medium gray, fine to medium grained, to 25% biotite or hornblende)
    - APLITE: fine grained with occasional pegmatitic veins, pink to light gray
- TRIASSIC
  - NICOLLA GROUP VOLCANICS
    - ANDESITE: dark greenish green, fine grained to porphyritic with to 20% amphibole, pyroxene and/or diagenetic phenocrysts
- ALTERATION CODES
  - g argillic
  - ph phyllic
  - pp pyroclastic
  - sp sericitic
- SYMBOLS
  - LIMIT OF STRONGEST ALTERATION
  - LITHOLOGICAL CONTACT
  - SHEAR, FAULT STRIKE AND DIP
  - REVERSE FAULT STRIKE AND DIP (TEXT ON UPPER PLATE)
  - FRACTURE STRIKE AND DIP
  - EDGE OF TRENCH/STRIPPED AREA
  - FLOOR PANEL, WALL PANEL, CHIP SAMPLE (PANELS ARE 6.6 x 6.6 METERS)
  - BULK SAMPLE
  - AVERAGED GOLD VALUE (g/ton) TRUE WIDTH (meters) TEST
  - SURVEY CONTROL POINT
  - DIAMOND DRILL HOLE COLLAR DIP



SAMPLE NUMBER	LENGTH m (ft)	Au gm/T (oz/1)
SN8912-153P	1.00 (3.28)	0.03 (0.001)
-154P	0.50 (1.64)	5.07 (0.148)
-155P	0.50 (1.64)	0.99 (0.029)

SAMPLE NUMBER	LENGTH m (ft)	Au gm/T (oz/1)
SN8912-164P	0.50 (1.64)	1.23 (0.036)
-165P	0.50 (1.64)	3.09 (0.090)
-166P	1.00 (3.28)	0.07 (0.002)
-167P	1.00 (3.28)	0.03 (0.001)
-168P	0.50 (1.64)	3.33 (0.097)
-169P	0.50 (1.64)	2.33 (0.068)

SAMPLE NUMBER	LENGTH m (ft)	Au gm/T (oz/1)
SN8912-175P	0.40 (1.31)	0.45 (0.013)
-176P	1.20 (3.94)	26.74 (0.760)
-177P	0.40 (1.31)	0.17 (0.005)
-178P	0.40 (1.31)	0.24 (0.007)
-179P	0.40 (1.31)	0.21 (0.006)
-180P	1.20 (3.94)	10.08 (0.294)
BULK	1.20 (3.94)	43.15 (1.260)
-88P	0.70 (2.30)	0.31 (0.009)
-89P	0.70 (2.30)	80.06 (2.335)
-90P	0.70 (2.30)	1.27 (0.037)

SAMPLE NUMBER	LENGTH m (ft)	Au gm/T (oz/1)
SN8912-96P	0.70 (2.30)	0.79 (0.023)
-96P	0.75 (2.46)	6.14 (0.179)
-97P	0.75 (2.46)	0.82 (0.024)
-191P	1.20 (3.94)	0.93 (0.027)
-192P	1.00 (3.28)	18.34 (0.535)
-83P	0.50 (1.64)	3.74 (0.109)
-84P	0.50 (1.64)	2.06 (0.060)
-85P	0.80 (2.62)	32.50 (0.948)
-86P	1.00 (3.28)	0.14 (0.004)
-196P	1.00 (3.28)	1.78 (0.052)
-197P	1.00 (3.28)	8.81 (0.257)
SN 120	0.50 (1.64)	0.41 (0.012)
121	0.30 (0.98)	3.22 (0.094)
122	0.80 (2.62)	0.03 (0.001)

SAMPLE NUMBER	LENGTH m (ft)	Au gm/T (oz/1)
SN8912-125P	1.00 (3.28)	7.75 (0.226)
-126P	1.00 (3.28)	0.86 (0.025)
-127P	1.00 (3.28)	2.26 (0.066)
-62P	1.00 (3.28)	8.61 (0.251)
-63P	0.80 (2.62)	0.38 (0.011)
-64P	0.80 (2.62)	0.24 (0.007)
-65P	0.50 (1.64)	11.01 (0.321)
-209P	1.00 (3.28)	0.79 (0.023)
-210P	1.00 (3.28)	7.27 (0.212)
-47P	0.45 (1.48)	4.53 (0.132)
-48P	0.90 (2.95)	0.21 (0.006)
-49P	0.60 (1.97)	7.13 (0.206)
-50P	1.00 (3.28)	0.10 (0.003)
-51P	0.90 (2.95)	8.19 (0.239)
-52P	0.50 (1.64)	0.47 (0.014)
-53P	0.50 (1.64)	2.09 (0.061)

SAMPLE NUMBER	LENGTH m (ft)	Au gm/T (oz/1)
SN8912-14P	1.10 (3.61)	3.05 (0.089)
-15P	0.90 (2.95)	43.54 (1.270)
-16P	0.85 (3.02)	4.15 (0.121)
-26P	1.00 (3.28)	1.89 (0.055)
-25P	1.00 (3.28)	7.94 (0.229)
-17P	0.70 (2.30)	21.67 (0.632)
-18P	0.40 (1.31)	39.26 (1.145)
-23P	0.85 (2.79)	1.68 (0.049)
-22P	0.75 (2.46)	64.42 (1.879)
-21P	0.85 (2.79)	4.94 (0.144)
-107P	0.50 (1.64)	12.96 (0.378)
-108P	0.70 (2.30)	49.30 (1.438)
-109P	0.50 (1.64)	0.17 (0.005)
-6P	0.85 (2.79)	15.36 (0.448)
-7P	0.70 (2.30)	50.78 (1.481)
-8P	1.00 (3.28)	18.62 (0.543)
-9P	0.45 (1.48)	109.17 (3.164)
-10P	0.50 (1.64)	2.50 (0.073)
-11P	0.80 (2.62)	3.43 (0.100)
-12P	0.65 (2.13)	49.17 (1.434)
-104P	1.00 (3.28)	7.47 (0.218)
-105P	0.60 (1.97)	15.02 (0.438)
-106P	0.60 (1.97)	1.85 (0.054)
-211P	1.00 (3.28)	0.41 (0.012)
-212P	1.00 (3.28)	12.21 (0.356)
SN273	1.20 (3.94)	3.05 (0.089)
274	0.30 (0.98)	115.48 (3.368)
275	0.50 (1.64)	1.58 (0.046)

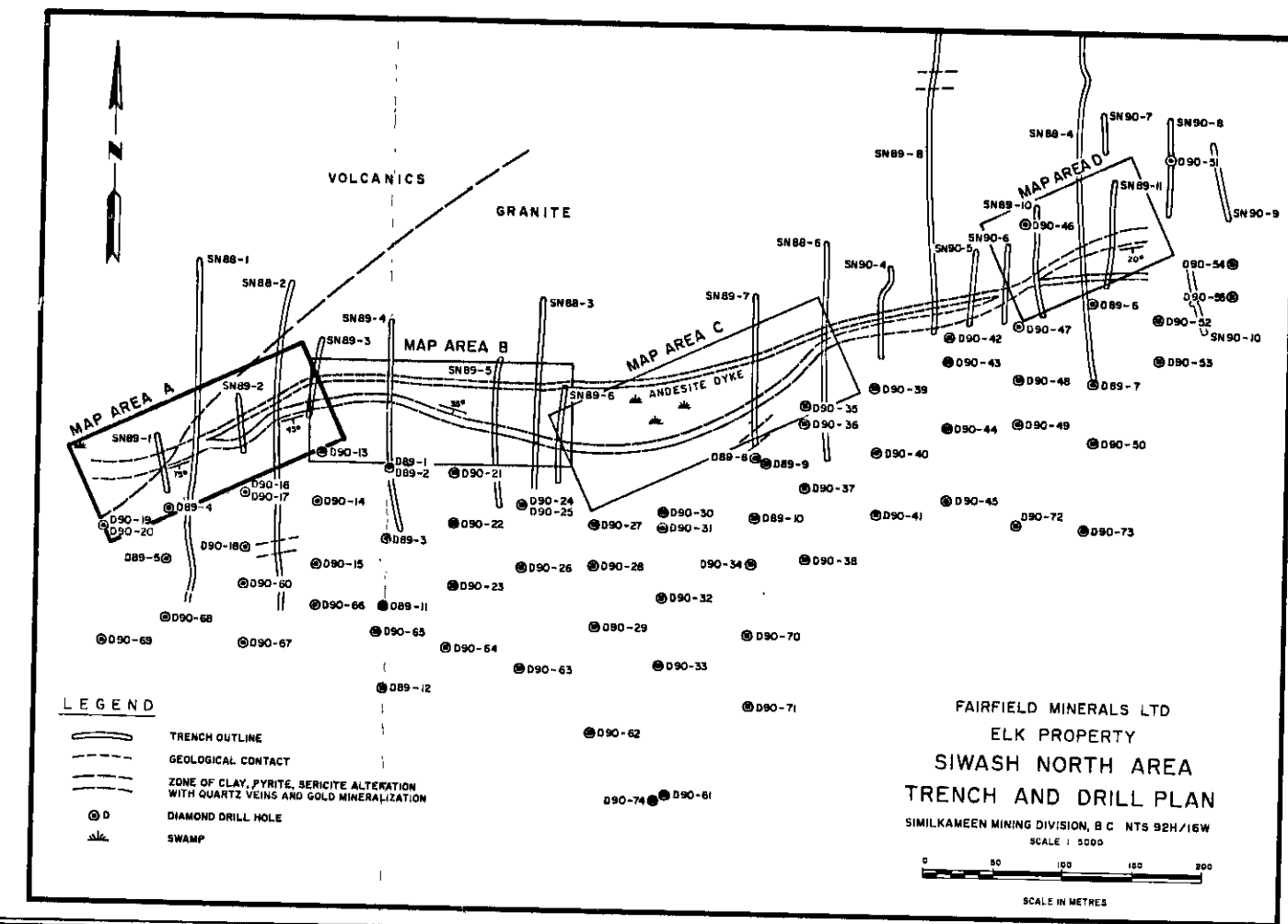
SAMPLE NUMBER	LENGTH m (ft)	Au gm/T (oz/1)
SN8912-214P	1.00 (3.28)	0.86 (0.025)
-215P	1.00 (3.28)	98.20 (2.854)
-216P	1.00 (3.28)	1.61 (0.047)
-181P	1.00 (3.28)	0.82 (0.024)
-182P	0.85 (2.79)	35.93 (1.048)
-183P	1.00 (3.28)	2.19 (0.064)
-1P	1.00 (3.28)	7.44 (0.217)
-2P	0.70 (2.30)	8.54 (0.248)
-3P	0.50 (1.64)	7.37 (0.215)
-101P	1.00 (3.28)	2.81 (0.082)
-102P	0.60 (1.97)	84.51 (2.465)
-103P	1.00 (3.28)	4.97 (0.145)
SN893-	1.00 (3.28)	0.17 (0.005)
-2P	1.00 (3.28)	114.76 (3.347)
-3P	1.00 (3.28)	0.38 (0.011)
-5	1.00 (3.28)	0.07 (0.002)
-6P	0.70 (2.30)	6.72 (0.196)
-7P	0.50 (1.64)	194.16 (5.663)
-8P	1.00 (3.28)	4.73 (0.138)
-9	1.00 (3.28)	2.06 (0.060)
-10P	1.00 (3.28)	1.30 (0.038)
-11P	1.00 (3.28)	76.49 (2.231)
-12P	1.00 (3.28)	2.78 (0.081)
-13	1.00 (3.28)	1.39 (0.040)

BULK SAMPLE RESULT  
(average with coincident panel samples)  
18.27 (0.533)  
2.0 (6.6)

10.87 (0.317)  
2.0 (6.6)

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

21,443



FAIRFIELD MINERALS LTD  
ELK PROPERTY  
SIWASH NORTH AREA  
TRENCH AND DRILL PLAN  
SIMILKAMEEN MINING DIVISION, B.C. MTS 92H/16W  
SCALE 1:2000

FAIRFIELD MINERALS LTD.  
ELK PROPERTY  
SIMILKAMEEN MINING DIVISION, BRITISH COLUMBIA  
NTS 92H/16W

SIWASH NORTH AREA  
MAP AREA "A"  
STRIPPED AREA GEOLOGY

SCALE 1:200

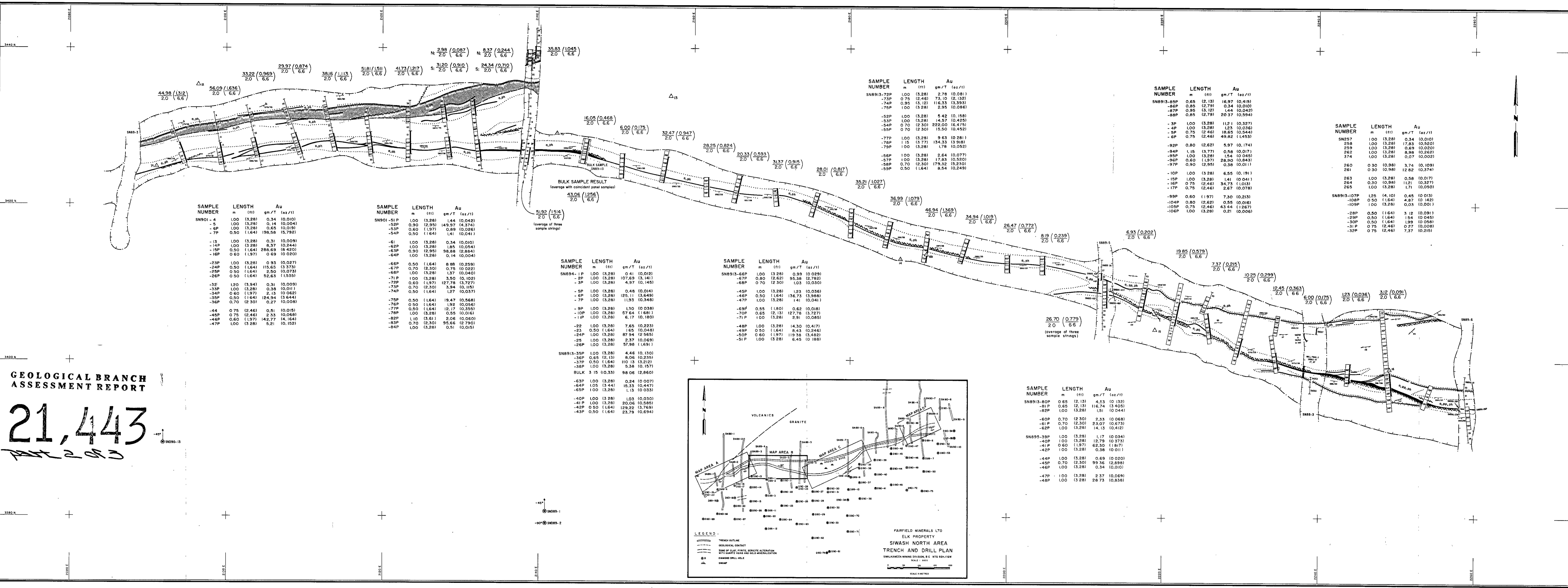
CONDILLERAN ENGINEERING LTD.  
2900-105 W. HASTINGS STREET  
VANCOUVER, B.C. V6Z 2E3

APRIL 1991 PLATE 6

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**21,443**

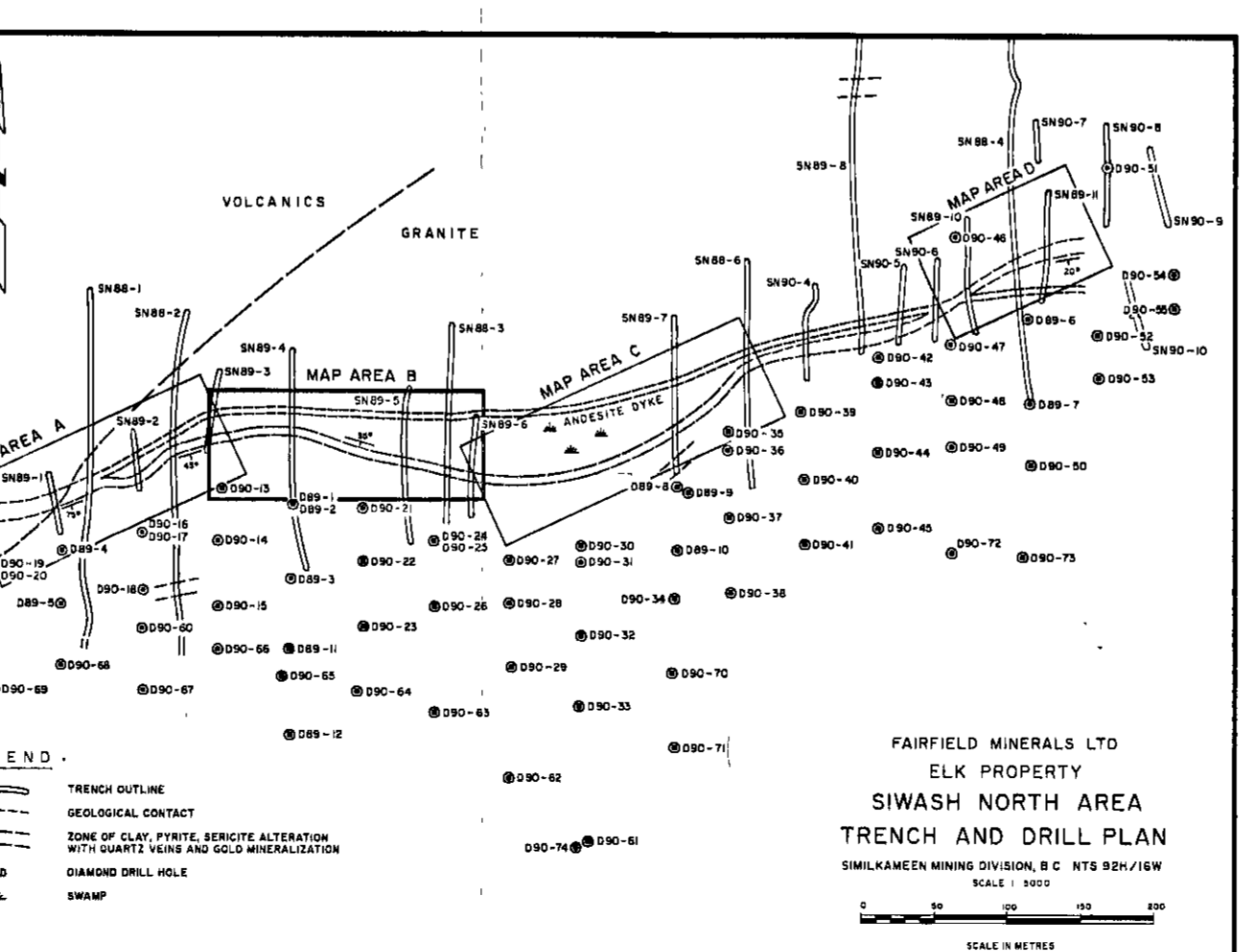
APR 2 1993



SAMPLE NUMBER	LENGTH m (ft)	Au gm/T (oz/1)
SN901-4	1.00 (3.28)	0.34 (0.010)
-5	1.00 (3.28)	0.14 (0.004)
-6P	1.00 (3.28)	0.65 (0.019)
-7P	0.50 (1.64)	196.56 (5.792)
-13	1.00 (3.28)	0.31 (0.009)
-14P	1.00 (3.28)	8.37 (0.244)
-15P	0.50 (1.64)	286.69 (8.420)
-16P	0.60 (1.97)	0.69 (0.020)
-23P	1.00 (3.28)	0.93 (0.027)
-24P	0.50 (1.64)	115.65 (3.373)
-25P	0.50 (1.64)	2.50 (0.073)
-26P	0.50 (1.64)	52.63 (1.535)
-32	1.20 (3.94)	0.31 (0.009)
-33P	1.00 (3.28)	0.38 (0.011)
-34P	0.60 (1.97)	2.13 (0.062)
-35P	0.50 (1.64)	124.94 (3.644)
-36P	0.70 (2.30)	0.27 (0.008)
-44	0.75 (2.46)	0.51 (0.015)
-45P	0.75 (2.46)	2.33 (0.068)
-46P	0.60 (1.97)	142.77 (4.164)
-47P	1.00 (3.28)	5.21 (0.152)

SAMPLE NUMBER	LENGTH m (ft)	Au gm/T (oz/1)
SN901-51P	1.00 (3.28)	1.44 (0.042)
-52P	0.90 (2.95)	149.97 (4.374)
-53P	0.60 (1.97)	0.89 (0.026)
-54P	0.50 (1.64)	1.41 (0.041)
-61	1.00 (3.28)	0.34 (0.010)
-62P	1.00 (3.28)	1.85 (0.054)
-63P	0.90 (2.95)	98.88 (2.884)
-64P	1.00 (3.28)	0.14 (0.004)
-66P	0.50 (1.64)	8.88 (0.259)
-67P	0.70 (2.30)	0.75 (0.022)
-68P	1.00 (3.28)	1.37 (0.040)
-71P	1.00 (3.28)	3.50 (0.102)
-72P	0.60 (1.97)	127.78 (3.727)
-73P	0.70 (2.30)	3.94 (0.115)
-74P	0.50 (1.64)	1.27 (0.037)
-75P	0.50 (1.64)	19.47 (0.568)
-76P	0.50 (1.64)	1.92 (0.056)
-77P	1.00 (3.28)	12.17 (0.355)
-78P	1.00 (3.28)	0.55 (0.016)
-79P	1.00 (3.28)	57.64 (1.681)
-82P	1.10 (3.61)	2.06 (0.060)
-83P	0.70 (2.30)	95.66 (2.790)
-84P	1.00 (3.28)	0.51 (0.015)

SAMPLE NUMBER	LENGTH m (ft)	Au gm/T (oz/1)
SN894-1P	1.00 (3.28)	0.41 (0.012)
-2P	1.00 (3.28)	107.69 (3.141)
-3P	1.00 (3.28)	4.97 (0.145)
-45P	1.00 (3.28)	0.48 (0.014)
-46P	0.50 (1.64)	125.11 (3.649)
-47P	1.00 (3.28)	1.41 (0.041)
-48P	0.55 (1.65)	0.62 (0.018)
-49P	0.65 (2.13)	127.76 (3.727)
-51P	1.00 (3.28)	2.91 (0.085)
-22	1.00 (3.28)	7.65 (0.223)
-23	0.50 (1.64)	1.65 (0.048)
-24P	1.00 (3.28)	87.94 (2.585)
-25	1.00 (3.28)	2.37 (0.069)
-26P	1.00 (3.28)	57.98 (1.691)
SN8913-35P	1.00 (3.28)	4.46 (0.130)
-36P	0.65 (2.13)	8.06 (0.235)
-37P	0.50 (1.64)	110.13 (3.212)
-38P	1.00 (3.28)	5.38 (0.157)
BULK	3.15 (10.33)	98.06 (2.860)
-63P	1.00 (3.28)	0.24 (0.007)
-64P	1.05 (3.44)	15.33 (0.447)
-65P	1.00 (3.28)	1.13 (0.033)
-40P	1.00 (3.28)	1.03 (0.030)
-41P	1.00 (3.28)	20.06 (0.585)
-42P	0.50 (1.64)	129.22 (3.769)
-43P	0.50 (1.64)	23.79 (0.694)



SAMPLE NUMBER	LENGTH m (ft)	Au gm/T (oz/1)
SN8913-80P	0.65 (2.13)	4.53 (0.132)
-81P	0.65 (2.13)	116.74 (3.405)
-82P	1.00 (3.28)	1.51 (0.044)
-60P	0.70 (2.30)	2.33 (0.068)
-61P	0.70 (2.30)	23.07 (0.673)
-62P	1.00 (3.28)	14.13 (0.412)
SN895-39P	1.00 (3.28)	1.17 (0.034)
-40P	1.00 (3.28)	12.79 (0.373)
-41P	0.60 (1.97)	62.30 (1.817)
-42P	1.00 (3.28)	0.38 (0.011)
-44P	1.00 (3.28)	0.69 (0.020)
-45P	0.70 (2.30)	99.36 (2.898)
-46P	1.00 (3.28)	0.34 (0.010)
-47P	1.00 (3.28)	2.37 (0.068)
-48P	1.00 (3.28)	28.73 (0.838)

**LEGEND**

**TERTIARY**

- QUARTZ VEINS STRIKE AND DIP
- ANDESITE DYKE STRIKE AND DIP

**JURASSIC**

- BRECCIA: brownish gray granitic (?) matrix, sub-rounded fragments granitic rocks and veins, clasts to 30 cm and 40%

**OSPREY LAKE BATHOLITH**

- GRANITIC ROCKS: QUARTZ MONZONITE light to medium amorph grey, coarse grained equigranular, to about 50% biotite
- GRANODIORITE: medium grey, fine to medium grained, to 25% biotite or hornblende
- APLITE: fine grained with occasional pegmatitic veins, pink to light grey

**TRIASSIC NICOLA GROUP VOLCANICS**

- ANDESITE: dark grayish green, fine grained to porphyritic with to 20% amphibole, pyroxene and/or plagioclase phenocrysts

**ALTERATION CODES**

- o organic
- ph phyllic
- pp pyrolytic
- ee sericitic

**SYMBOLS**

- LIMIT OF STRONGEST ALTERATION
- LITHOLOGICAL CONTACT
- SHEAR FAULT STRIKE AND DIP
- REVERSE FAULT STRIKE AND DIP (TEETH ON UPPER PLATE)
- FRACTURE STRIKE AND DIP
- EDGE OF TRENCH/STRIPPED AREA
- FLOOR PANEL, WALL PANEL, CHIP SAMPLE (PANELS ARE 0.3 m WIDE)
- BULK SAMPLE
- AVERAGED GOLD VALUE gm/tonne (oz/ton) TRUE WIDTH metres (feet)
- SURVEY CONTROL POINT
- DIAMOND DRILL HOLE COLLAR

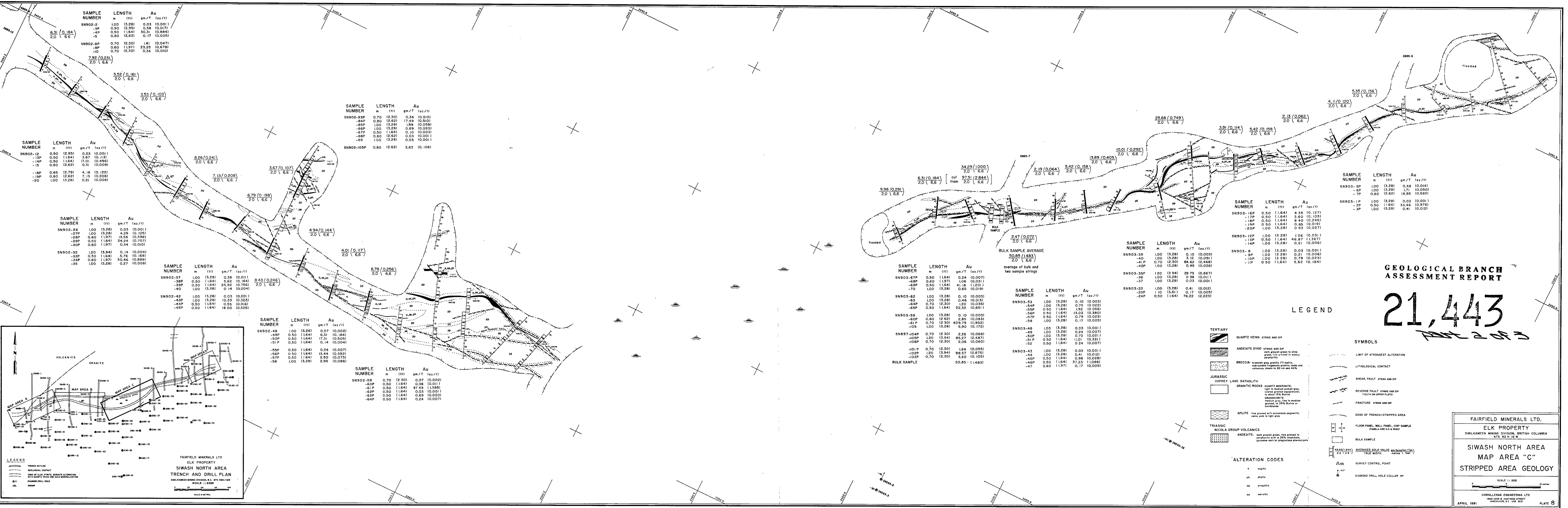
**FAIRFIELD MINERALS LTD.**  
ELK PROPERTY  
SIMILKAMEN MINING DIVISION, BRITISH COLUMBIA  
NTS 92 H 16 W

**SIWASH NORTH AREA  
MAP AREA "B"  
STRIPPED AREA GEOLOGY**

SCALE 1:200

CORDELLAN ENGINEERING LTD.  
1802-055 W. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E8

APRIL 1991 **PLATE 7**



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**21,443**  
APR 2003

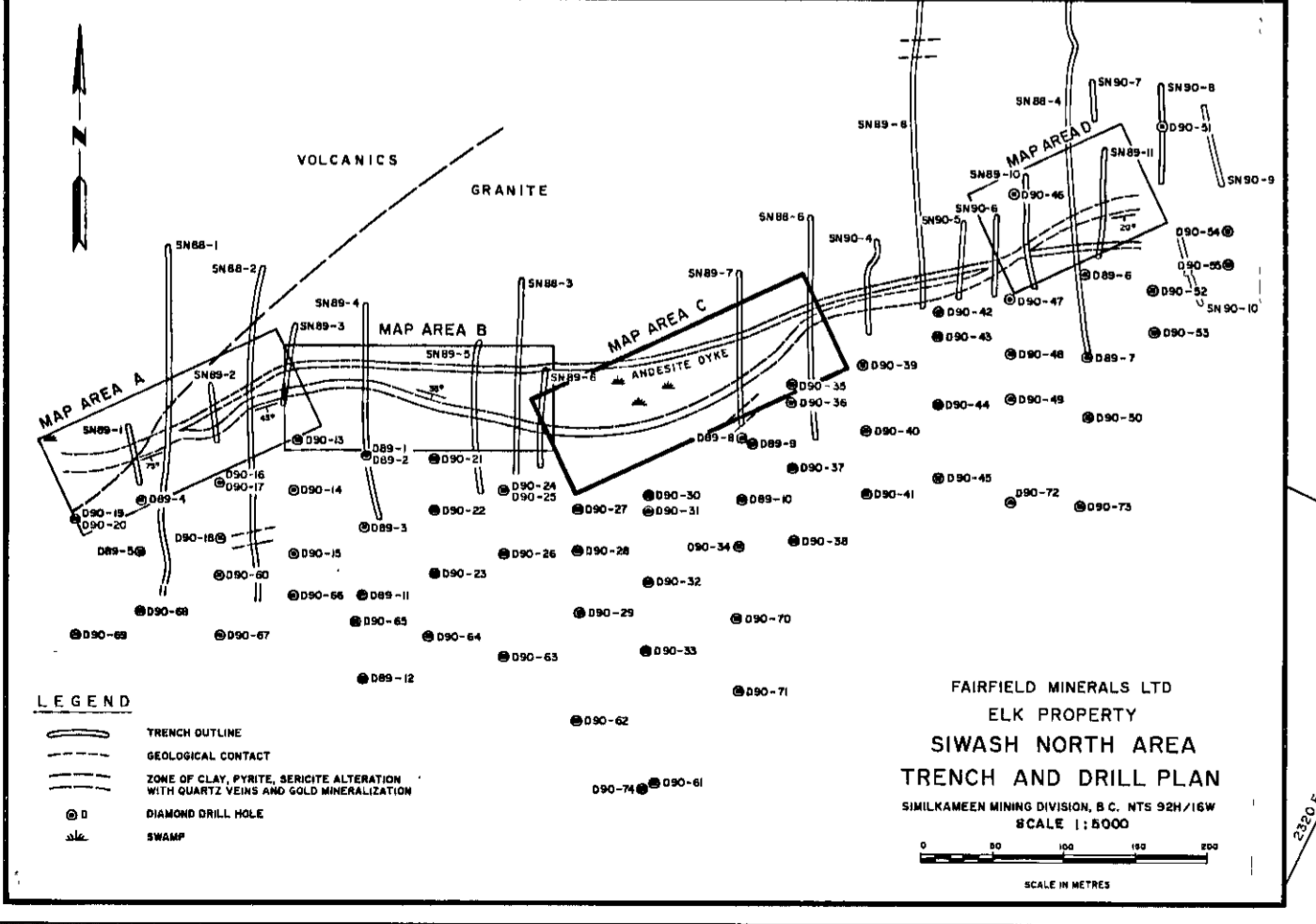
**LEGEND**

- SYMBOLS**
- LIMIT OF STRONGEST ALTERATION
  - LITHOLOGICAL CONTACT
  - SHEAR, FAULT STRIKE AND DIP
  - REVERSE FAULT STRIKE AND DIP (TEXT ON UPPER PLATE)
  - FRACTURE STRIKE AND DIP
  - EDGE OF TRENCH/STRIPPED AREA
  - FLOOR PANEL, WALL PANEL, CHIP SAMPLE (PANELS ARE 0.5 M WIDE)
  - BULK SAMPLE
  - AVERAGED GOLD VALUE (gm/ton/ft) TRUE WIDTH (metres) 1:100
  - SURVEY CONTROL POINT
  - DIAMOND DRILL HOLE COLLAR DP

- TERTIARY**
- QUARTZ VEINS- STRIKE AND DIP
  - ANDESITE DYKE- STRIKE AND DIP (SEE APPENDIX FOR STRIKE AND DIP)
  - BRECCIA- brownish grey granitic (?) matrix, interbedded fragments of granitic rocks and volcanic, clasts to 30 cm and 40%
- JURASSIC**
- OSPREY LAKE BATHOLITH
  - GRANITIC ROCKS QUARTZ MONZONITE (LIGHT TO MEDIUM BROWN GRAY, TO SLIGHTLY REDDISH, TO SLIGHTLY BROWN)
  - DIABASOIDITE (MEDIUM GRAY, LINE TO MEDIUM GREEN, TO 25% BUFFLE OR BROWNISH)
  - APLITE (fine grained with occasional pagonitic veins, pink to light gray)
- TRIASSIC**
- NICOLA GROUP VOLCANICS
  - ANDESITE (dark green to gray, fine grained to porphyritic with 10-20% sphaphite, pyroxene and/or plagioclase phenocrysts)

**ALTERATION CODES**

- o argillic
- ph phyllic
- pp propylitic
- ss sericitic



FAIRFIELD MINERALS LTD  
ELK PROPERTY  
SIWASH NORTH AREA  
TRENCH AND DRILL PLAN  
SIMILKAMEEN MINING DIVISION, B.C. MTS 2001/01/01  
SCALE 1:1000

FAIRFIELD MINERALS LTD.  
ELK PROPERTY  
SIMILKAMEEN MINING DIVISION, BRITISH COLUMBIA  
NTS 92 H 16 W

**SIWASH NORTH AREA  
MAP AREA "C"  
STRIPPED AREA GEOLOGY**

SCALE 1:200

CORDELLERAN ENGINEERING LTD  
1840-108 W. HASTINGS STREET  
VANCOUVER, B.C. V6E 1E4  
APRIL 1991

PLATE 8

LEGEND

- TERTIARY**
- QUARTZ VEINS STRIKE AND DIP
  - ANDESITE DYKE STRIKE AND DIP: dark grayish green to olive green, fine grained to weakly porphyritic
  - BRECCIA: brownish gray granitic (?) matrix, subrounded fragments granitic rocks and volcanics, clasts to 30 cm and 40%
- JURASSIC**
- OSPREY LAKE BATHOLITH
- GRANITIC ROCKS: QUARTZ MONZONITE: light to medium pinkish grey, coarse grained equigranular, to about 15% Biotite  
 GRANODIORITE: medium grey, fine to medium grained, to 25% Biotite or hornblende
- APLITE: fine grained with occasional pegmatitic veins, pink to light grey
- TRIASSIC**
- NICOLA GROUP VOLCANICS
- ANDESITE: dark grayish green fine grained to porphyritic with to 25% amphibole, pyroxene and/or plagioclase phenocrysts

ALTERATION CODES

- o argillic
- ph phyllic
- pp propylitic
- se sericitic

SYMBOLS

- LIMIT OF STRONGEST ALTERATION
- LITHOLOGICAL CONTACT
- SHEAR, FAULT STRIKE AND DIP
- REVERSE FAULT STRIKE AND DIP (TEETH ON UPPER PLATE)
- FRACTURE STRIKE AND DIP
- EDGE OF TRENCH/STRIPPED AREA
- FLOOR PANEL, WALL PANEL, CHIP SAMPLE (PANELS ARE 0.5 m WIDE)
- BULK SAMPLE
- AVERAGED GOLD VALUE gm/tonne (oz/Ton) TRUE WIDTH metres (feet)
- SURVEY CONTROL POINT
- DIAMOND DRILL HOLE COLLAR DIP

SAMPLE NUMBER	LENGTH m (ft)	Au	
		gm/T	(oz/1)
SN8914-31 P	1.00 (3.28)	0.34	(0.010)
-32P	1.00 (3.28)	4.32	(0.126)
-33P	1.00 (3.28)	0.21	(0.006)
-51 P	1.00 (3.28)	0.03	(0.001)
-52P	1.00 (3.28)	62.09	(1.811)
-53P	1.00 (3.28)	18.96	(0.553)
-54P	1.00 (3.28)	0.79	(0.023)

SAMPLE NUMBER	LENGTH m (ft)	Au	
		gm/T	(oz/1)
SN8914-60P	1.40 (4.59)	2.26	(0.066)
-61 P	0.60 (1.97)	3.46	(0.101)
-62P	0.60 (1.97)	6.96	(0.203)
-63P	1.40 (4.59)	0.38	(0.011)
SN8914-64P	1.40 (4.59)	2.54	(0.074)
-65P	0.60 (1.97)	22.36	(0.660)
-66P	0.60 (1.97)	0.79	(0.023)
-67P	1.40 (4.59)	0.48	(0.014)
BULK	1.20 (3.94)	15.60	(0.455)

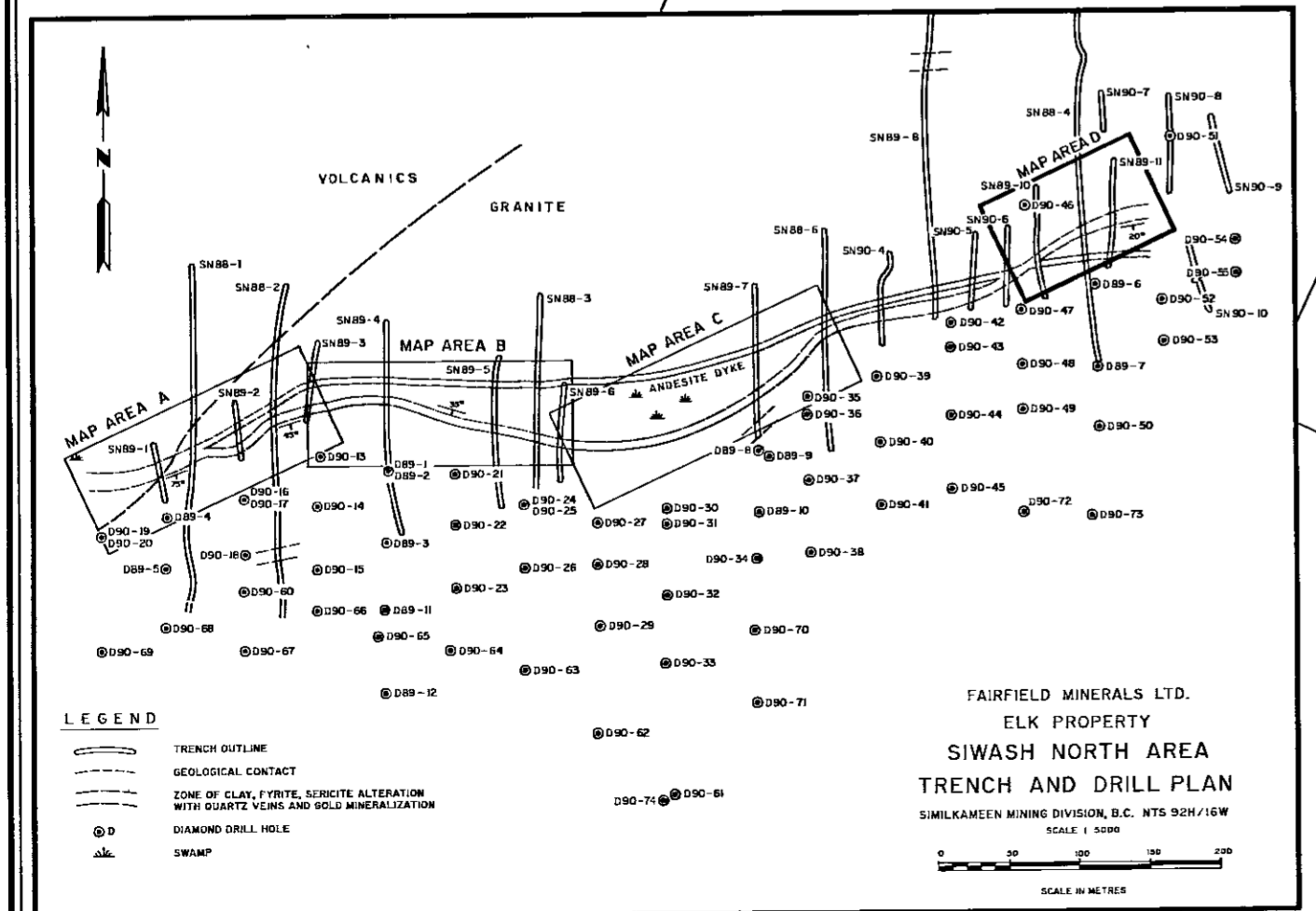
SAMPLE NUMBER	LENGTH m (ft)	Au	
		gm/T	(oz/1)
SN8914-12P	1.00 (3.28)	0.86	(0.025)
-13P	1.00 (3.28)	14.71	(0.429)
-14P	0.85 (2.79)	0.10	(0.003)
SN8914-69P	1.00 (3.28)	6.27	(0.183)
-70P	1.00 (3.28)	0.59	(0.020)
-71P	1.00 (3.28)	15.46	(0.451)
-72P	1.00 (3.28)	1.20	(0.035)
-73P	1.00 (3.28)	2.40	(0.070)
-74P	1.00 (3.28)	2.16	(0.063)

SAMPLE NUMBER	LENGTH m (ft)	Au	
		gm/T	(oz/1)
SN8914-77	1.00 (3.28)	0.03	(0.001)
-78P	1.00 (3.28)	2.02	(0.059)
-79P	1.00 (3.28)	9.36	(0.273)
-80P	0.50 (1.64)	0.14	(0.004)

SAMPLE NUMBER	LENGTH m (ft)	Au	
		gm/T	(oz/1)
SN8914-2P	1.00 (3.28)	0.03	(0.001)
-3P	0.50 (1.65)	2.50	(0.073)
-4P	0.50 (1.50)	0.65	(0.019)

SAMPLE NUMBER	LENGTH m (ft)	Au	
		gm/T	(oz/1)
SN8911-5	1.00 (3.28)	0.27	(0.008)
-6	1.00 (3.28)	4.87	(0.142)
-11	0.60 (1.97)	3.57	(0.104)
-12	1.00 (3.28)	10.63	(0.310)
-13	0.70 (2.30)	0.08	(0.002)
-14	0.70 (2.30)	0.04	(0.001)
-15	1.00 (3.28)	0.06	(0.002)
-16	1.00 (3.28)	5.97	(0.174)
-17	1.00 (3.28)	0.05	(0.001)

SAMPLE NUMBER	LENGTH m (ft)	Au	
		gm/T	(oz/1)
SN330	1.00 (3.28)	0.65	(0.019)
329	0.30 (0.98)	12.79	(0.373)
328	0.50 (1.64)	43.71	(1.276)
327	0.60 (2.62)	10.60	(0.315)
364	1.00 (3.28)	0.27	(0.008)



GEOLOGICAL BRANCH ASSESSMENT REPORT

21,443  
 APR 2 1993

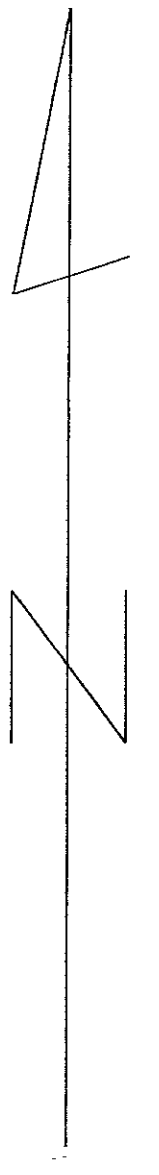
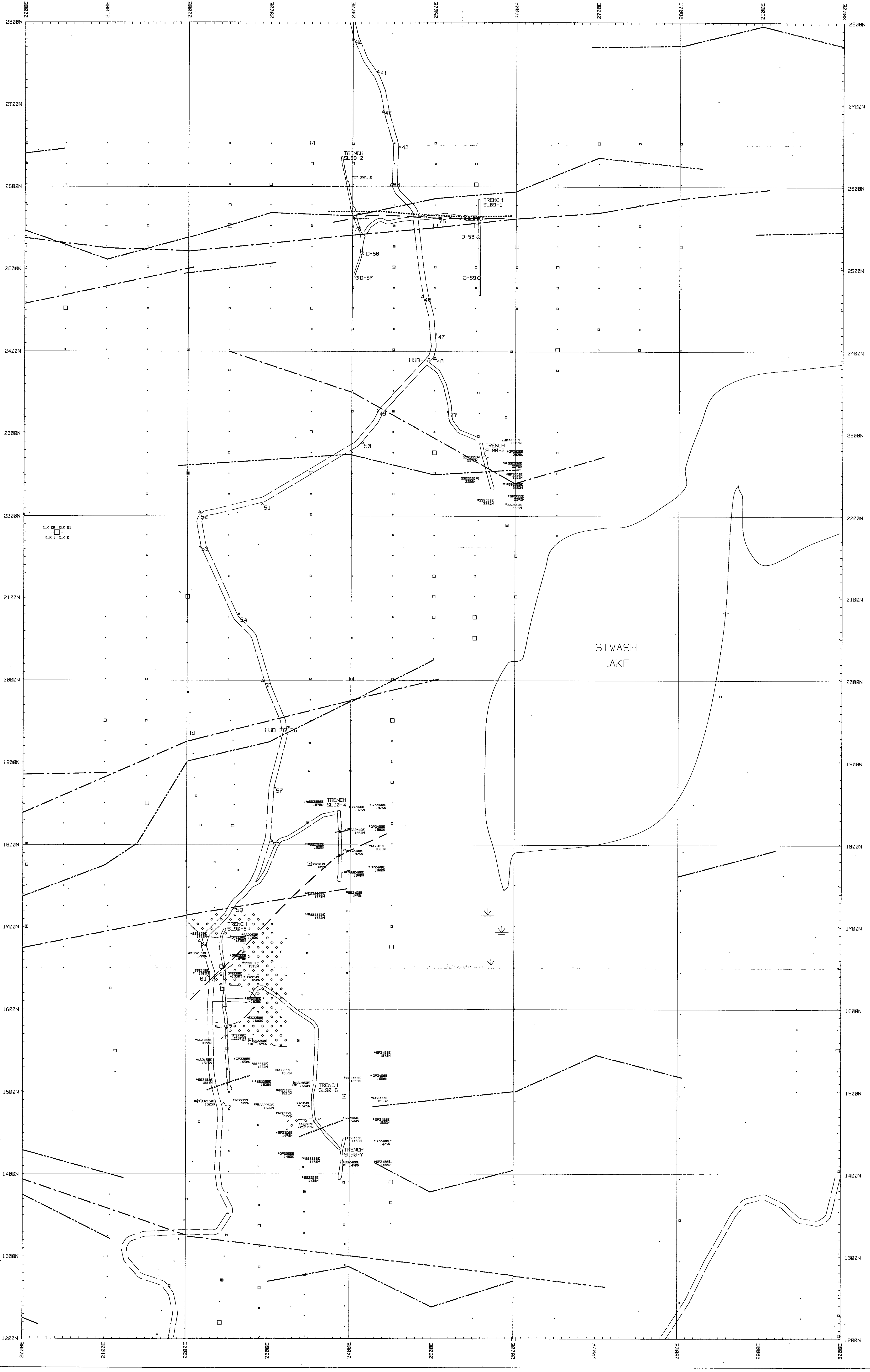
FAIRFIELD MINERALS LTD.  
 ELK PROPERTY  
 SIMILKAMEEN MINING DIVISION, BRITISH COLUMBIA  
 NTS 92H 16 W

SIWASH NORTH AREA  
 MAP AREA "D"  
 STRIPPED AREA GEOLOGY

SCALE 1:200  
 0 10 20 metres

CORDILLERAN ENGINEERING LTD.  
 1380-1055 W HASTINGS STREET  
 VANCOUVER B.C. V6E 2E9

APRIL 1991 PLATE 9



- LEGEND**
- LITHOLOGY**
- TERTIARY**
- OTTER INTRUSIONS
- FELDSPAR PORPHYRY medium grey to reddish with 32 to 40% Feldspar phenocrysts; fine grained; commonly strong argillitic alteration
- JURASSIC**
- OSPREY LAKE BATHOLITH
- APLITE pink to light grey, very fine-grained with occasional pegmatitic veins
  - GRANDIODORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
  - GRANITE, GRANITIC (UNDIVIDED) pink to pinkish grey, medium-grained, abundant K-spar, some hornblende
  - QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS
- ANDESITIC VOLCANIC dark grey-green to near black; very fine-grained to aphanitic; commonly porphyritic; pods of volcanic breccia
- SYMBOLS**
- lithological contact
  - trace of mineralized structure
  - fault or shear
  - trace of andesite dyke
  - trench/stripped area outline
  - significant averaged assay location
  - magnetic contact
  - VLF-EM anomaly
  - survey control point
  - surveyed geophysics station
  - surveyed soil sample station - result (>15ppb Au)
- soil sample stations:
- < 10 ppb Au
  - 10 - 20 ppb Au
  - 21 - 50 ppb Au
  - 51 - 100 ppb Au
  - >100 ppb Au
- road
  - diamond drill hole collar
  - swamp
  - claim post

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**21,443**  
APR 2 1993

FAIRFIELD MINERALS LTD.

ELK PROPERTY  
STATIKMEEN MINING DIVISION, BRITISH COLUMBIA  
NTS SCH 15V

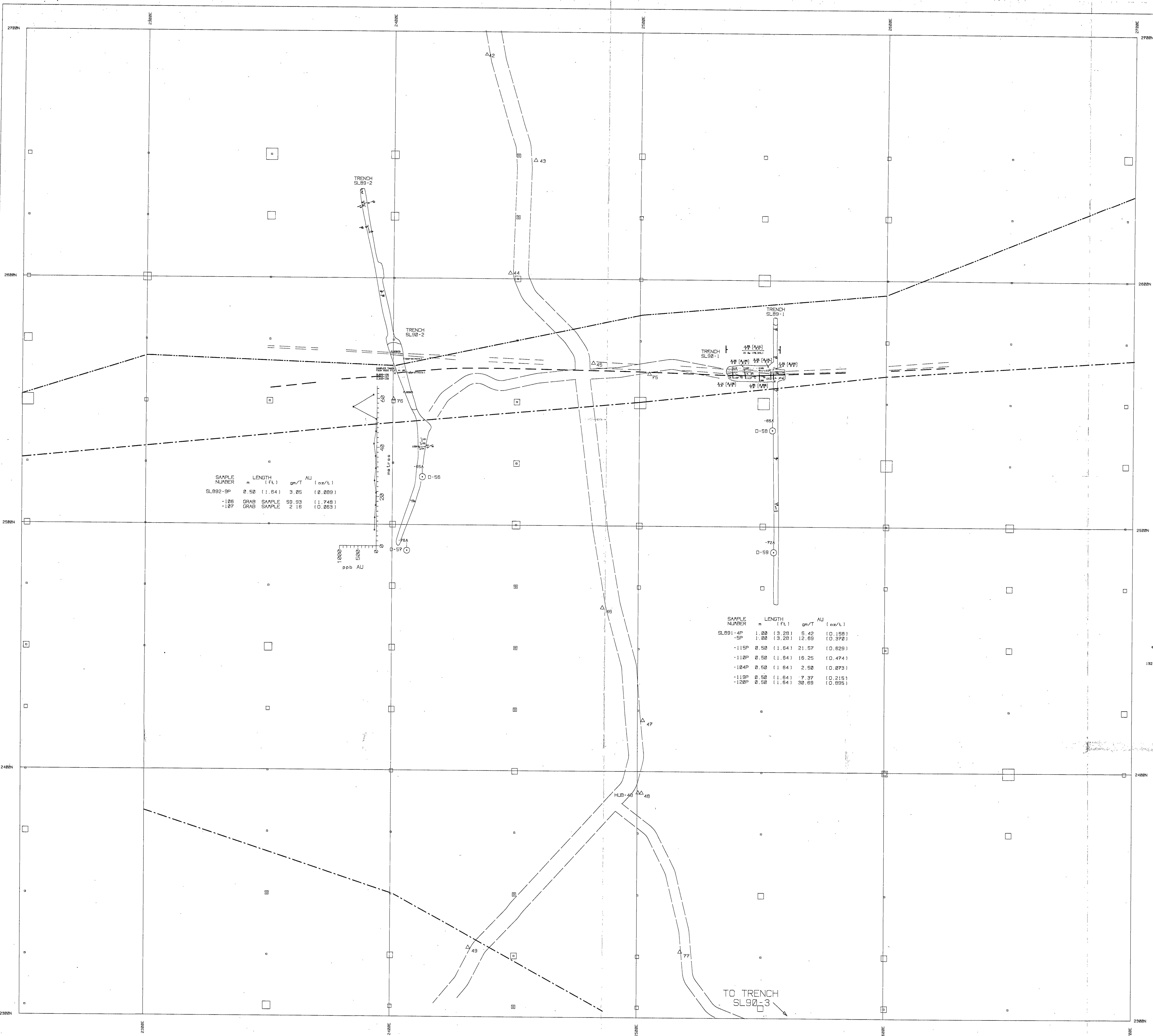
**SIWASH LAKE AREA  
COMPILATION MAP**

SCALE = 1 : 2000

CORDILLERAN ENGINEERING LTD.  
1980 - 1855 W. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9

DRAWN BY: PWC  
DATE: APRIL 1991

PLATE 10



SAMPLE NUMBER	LENGTH (FL)	gm/T	AU (oz/L)
SL89-9P	0.50 (1.64)	3.05	(0.089)
-106 GRAB SAMPLE	59.93	(1.748)	
-107 GRAB SAMPLE	2.16	(0.063)	

SAMPLE NUMBER	LENGTH (FL)	gm/T	AU (oz/L)
SL891-4P	1.00 (3.28)	5.42	(0.158)
-5P	1.00 (3.28)	12.89	(0.392)
-115P	0.50 (1.64)	21.57	(0.629)
-110P	0.50 (1.64)	16.25	(0.474)
-104P	0.50 (1.64)	2.50	(0.073)
-115P	0.50 (1.64)	7.37	(0.215)
-120P	0.50 (1.64)	30.89	(0.895)

- LEGEND**
- LITHOLOGY**
- TERTIARY**
- QUARTZ VEIN: white to grey quartz with some carbonate, strong brown stain, may contain up to 200 grains with heavy silicification, silicification, garnet, and epidote.
  - ANDESITIC DYKE: dark grey to black, fine to medium grained, may contain some magnetite.
- OTHER FEATURES**
- FELDSPAR PORPHYRY: medium grey to reddish with 30 to 40% Feldspar, some magnetite, and some silicification.
- JURASSIC**
- COMET LAKE BATHOLITH
    - APLITE: pink to light grey, very fine grained with occasional magnetite veins.
    - GRANODIORITE: medium to dark grey, fine to medium grained, up to 50% biotite or hornblende.
    - GRANITE, GRANITIC (unzoned): pink to light grey, medium grained, abundant K-feldspar, hornblende.
    - QUARTZ MONZONITE: light to medium grey, coarse grained, up to 10% quartz.
- TRIASSIC**
- NICOLA GROUP VOLCANICS
    - ANDESITIC VOLCANIC: dark grey to black, very fine grained to medium grained, may contain some magnetite.
- ALTERATION CODES**
- a: ARGILLIC
  - pk: K-feldspar STABLE PHYLIC
  - sp: SERPENTINIC
  - h: HYDROTHERMAL
  - ph: PHYLIC
  - pp: PROPYLITIC
  - sk: SKARN
- SYMBOLS**
- : lithological contact
  - - -: trace of mineralized structure
  - ~: fault or shear
  - : limit of strongest alteration
  - : strike and dip of vein, contact
  - : strike and dip of fracture
  - : trench/striped area outline
  - : magnetic contact
  - : ICP-XR anomaly
  - Δ: survey control point
  - Δ: surveyed geophysics station
- OPPOSITE**
- 1500N: surveyed geophysics station
- 1500E**
- 1500E: surveyed geophysics station - result (1500Au)
- well sample stations**
- : < 10 ppb Au
  - : 10 - 50 ppb Au
  - : 51 - 100 ppb Au
  - : 100 ppb Au
- trench floor gold well sample results**
- : rock sample string - significant assay over interval
- APP**
- APP: averaged gold value (oz/L) (ppb)
- road**
- : road
- D-58**
- D-58: diamond drill hole collar - inclination
- stamp**
- ★: stamp

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**21,443**  
APR 2 1993

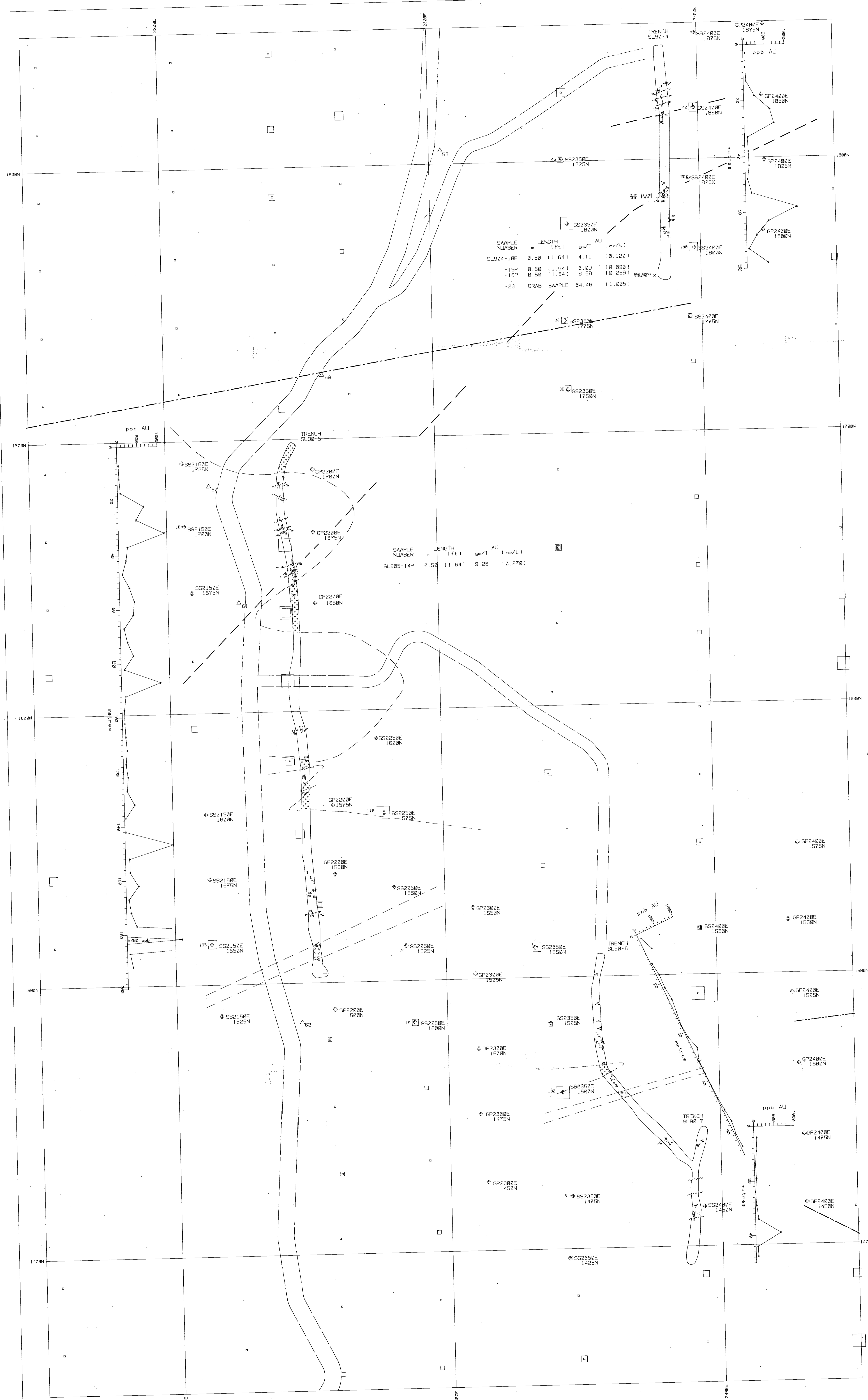
FAIRFIELD MINERALS LTD.

ELK PROPERTY  
SITILKAMEN MINING DIVISION, BRITISH COLUMBIA  
NTS 924 10V

SIWASH LAKE AREA (NORTH)  
TRENCH PLAN  
SCALE = 1 : 500

COMPELLER ENGINEERING LTD.  
1988 - 1988 V. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9

DRAWN BY: PWC  
DATE: APRIL 1991  
PLATE 11



- LEGEND**
- LITHOLOGY**
- QUARTZ VEIN: white to grey quartz with some subhedral strong baseness; after grinding may contain up to 200 parts per million (ppm) of gold; fine-grained to medium-grained; fine-grained to silty porphyritic.
  - ANDESITE DYKE: dark grey to black, fine-grained to silty porphyritic.
- OTHER INTAUSIONS**
- FELDSPAR PORPHYRY: medium grey to reddish with 20 to 400 Feldspar phenocrysts; fine-grained to coarse-grained; silty alteration.
- JURASSIC**
- QUARTZ LAKE BATHOLITH:
    - AMPLITE: pink to light grey, very fine-grained with occasional porphyritic veins.
    - GRANODIORITE: medium to dark grey, fine to medium grained, up to 150 microns of porphyrite.
    - GRANITE, GRANITIC TANGYDORITE: pink to pinkish grey, medium grained, abundant to sparse, some porphyrite.
    - QUARTZ MONZONITE: light to medium pinkish grey, coarse grained porphyritic, with up to 150 microns of porphyrite.
- TRIASIC**
- MICRA-SHARP VOLCANICS:
    - ANDESITIC VOLCANIC: dark grey to black, very fine-grained to silty, coarse-grained porphyritic; pink of volcanic breccia.
- ALTERATION CODES**
- o: ARGILLIC; pp: PORPHYRITIC
  - pk: K-FELDSPAR STABLE PHYLIC; se: SERPENTINITE
  - k: POTASSIC; si: SILICIFICATION
  - ph: PHYLIC; sk: SKARN
- SYMBOLS**
- : lithological contact
  - - -: trace of mineralized structure
  - ~: fault or shear
  - ~: line of strongest alteration
  - ~: strike and dip of vein, contact
  - ~: strike and dip of fracturing
  - ~: transcribed area outline
  - : magnetic contact
  - : VLF-EM anomaly
  - Δ 43: survey control point
  - GP2300E 1520N: surveyed geophysics station
  - GP2300E 1520N: surveyed soil sample station - result 110ppb Au
  - : soil sample stations:
    - : 10 ppb Au
    - : 10 - 20 ppb Au
    - : 21 - 50 ppb Au
    - : 51 - 100 ppb Au
    - : 100 ppb Au
  - ~: trench floor gold soil sample results
  - ~: rock sample string - significant assay average interval
  - ~: averaged gold value (part/ton) (gm/t) true width (feet) (metres)
  - D-50: diamond drill hole collar - inclination
  - ~: slump

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**21,443**

*APR 2013*

FAIRFIELD MINERALS LTD.

ELK PROPERTY  
STATKAMEN MINING DIVISION, BRITISH COLUMBIA  
N7S 0N1 1W

SIWASH LAKE AREA (SOUTH)  
TRENCH PLAN

SCALE = 1 : 500

CORDILLERAN ENGINEERING LTD.  
1888 - 1855 W HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9

DRAWN BY: PFC  
DATE: APRIL 1991

PLATE 12



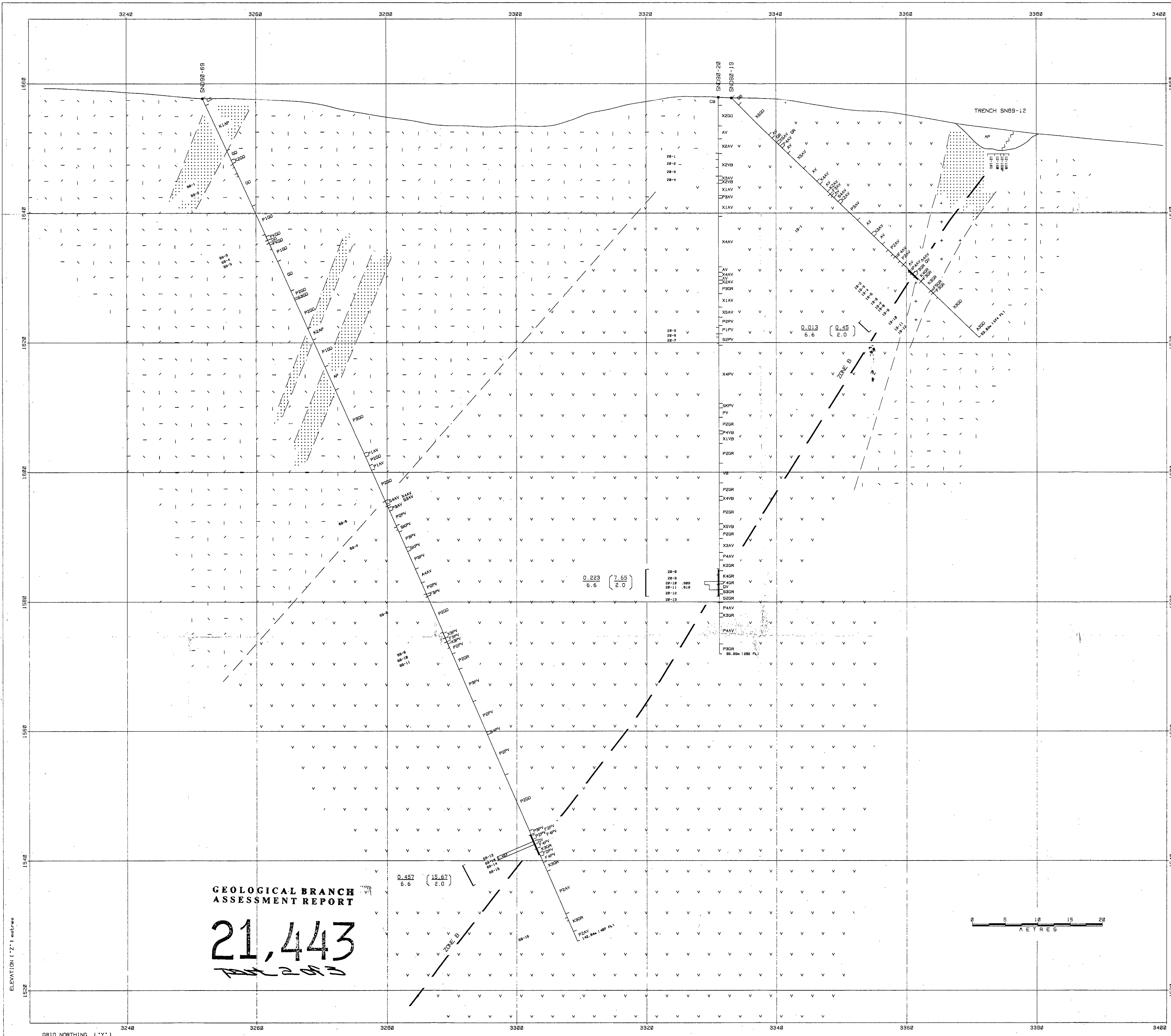
- LEGEND**
- LITHOLOGY**
- TERTIARY**
- QUARTZ VEIN** white to grey quartz with some ankerite; strong boxwork after pyrite; may contain up to 30% pyrite with lesser chalcopyrite, tetrahedrite, galena, and sphalerite; rare visible gold.
  - ANDESITE DYKE** dark greyish-green to olive-green, fine-grained to weakly porphyritic
- OTTER INTRUSIONS**
- FELDSPAR PORPHYRY** medium grey to reddish with 3% to 40% Feldspar phenocrysts; fine grained; commonly strong argillic alteration.
- JURASSIC**
- OSPREY LAKE BATHOLITH**
- APLITE** pink to light grey, very fine-grained with occasional pegmatitic veins
  - GRANDIORITE** medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
  - GRANITE, GRANITIC (UNDIVIDED)** pink to pinkish grey, medium-grained, abundant K-spar, some hornblende
  - QUARTZ MONZONITE** light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS**
- ANDESITIC VOLCANIC** dark grey-green to near black; very fine-grained to aphanitic; commonly porphyritic; pods of volcanic breccia
- ALTERATION CODES**
- |    |                      |    |                |
|----|----------------------|----|----------------|
| a  | ARGILLIC             | pp | PROPYLITIC     |
| fk | K-spar STABLE PHYLIC | se | SERICITIC      |
| k  | POTASSIC             | sl | SILICIFICATION |
| ph | PHYLIC               | sk | SKARN          |
- SYMBOLS**
- lithological contact
  - trace of mineralized structure
  - fault or shear
  - limit of strongest alteration
  - strike and dip of vein, contact
  - strike and dip of fracturing
  - trench/stripped area outline
- soil sample stations:**
- < 10 ppb Au
  - 10 - 20 ppb Au
  - 21 - 50 ppb Au
  - 51 - 100 ppb Au
  - >100 ppb Au
- rock sample string - significant assay average interval
- road
- swamp

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

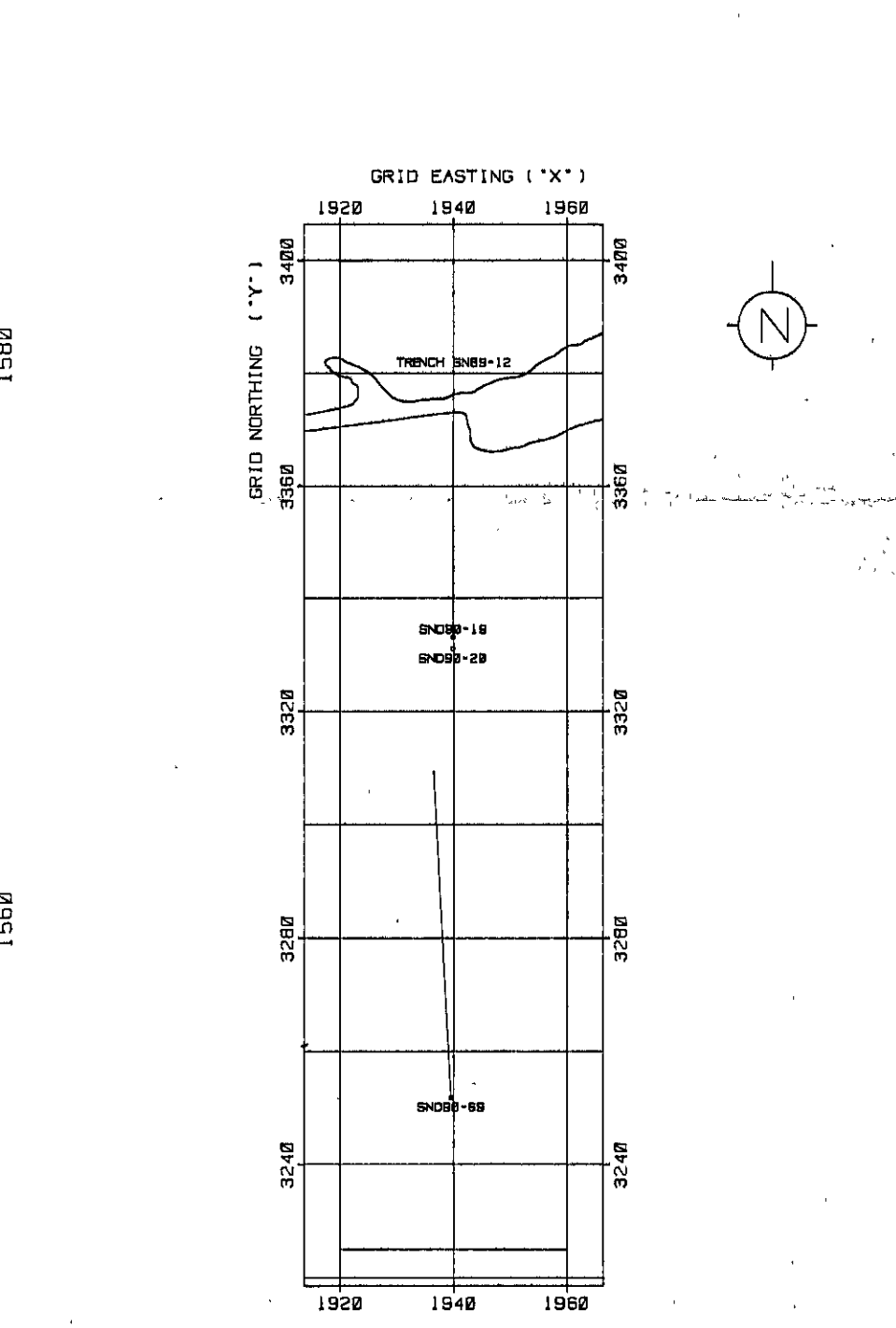
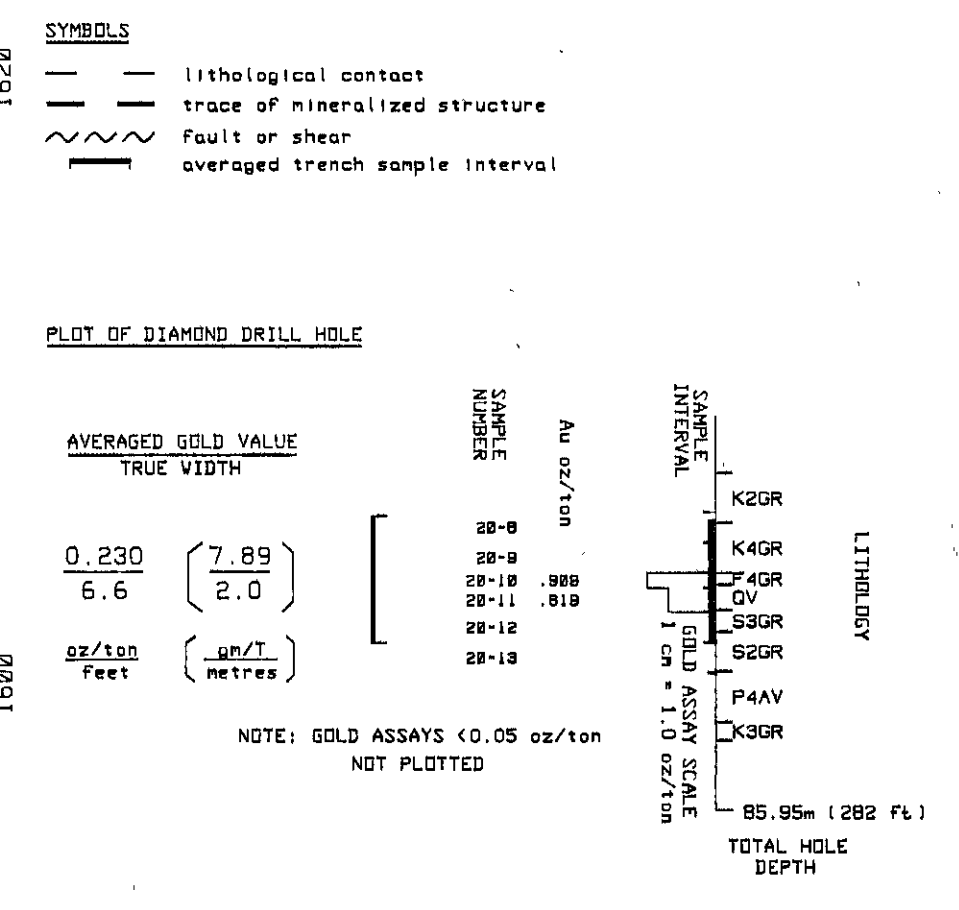
**21,445**  
APR 2 1993

FAIRFIELD MINERALS LTD.
ELK PROPERTY SIWASH CONNECTOR MINING DIVISION, BRITISH COLUMBIA NTS 92H 16V
SIWASH CONNECTOR AREA TRENCH S190-1 SCALE = 1 : 500
CORDILLERAN ENGINEERING LTD. 1980 - 1055 V. HASTINGS STREET VANCOUVER, B.C. V6E 2E9





- LEGEND**
- LITHOLOGY**
- CS CASING
  - MI MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITIC DYKE dark greyish-green to olive-green, fine-grained to weakly porphyritic
  - GG GUDGE clay-rich with numerous rock fragments, near fallation or banding may be evident
  - DV QUARTZ VEIN white to grey quartz with some siderite; commonly 100 to 200 microns with lesser chlorite, sphalerite, galena, tetraphenite; rare visible gold
- JURASSIC**
- OSPREY LAKE BATHOLITH**
- AP APLITE pink to light grey, very fine-grained with occasional pegmatitic veins
  - GD GRANDIORITE medium to dark grey, fine to medium grained, up to 100 microns or hornblende
  - GR GRANITE, GRANITIC (UNDIVIDED) pink to pinkish grey, medium-grained, abundant K-fspar, some hornblende
  - QH QUARTZ MONZONITE light to medium pinkish grey, coarse grained, irregularly sized up to 100 microns, slate or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS**
- AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to aphanitic
  - (PV) PORPHYRITIC VOLCANIC as above, phenocrysts of plagioclase or hornblende
  - (VB) VOLCANIC BRECCIA as above, brecciated with andesitic matrix which may contain up to 50% pyrite-pyrrhotite-chalcopyrite
- ALTERATION CODES**
- Al=1 ARGILLIC
  - Fin=1 PHYLIC
  - FK K-spar STABLE PHYLIC
  - Kin=1 POTASSIC
  - Pn=1 PROPYLITIC
  - Sin=1 SERICITIC
  - SK SKARN
  - Si=1 SILICIFICATION
- (n = 1 TO 5, WEAK TO INTENSE)
- SYMBOLS**
- lithological contact
  - - - trace of mineralized structure
  - ~ fault or shear
  - averaged trench sample interval



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**21,443**



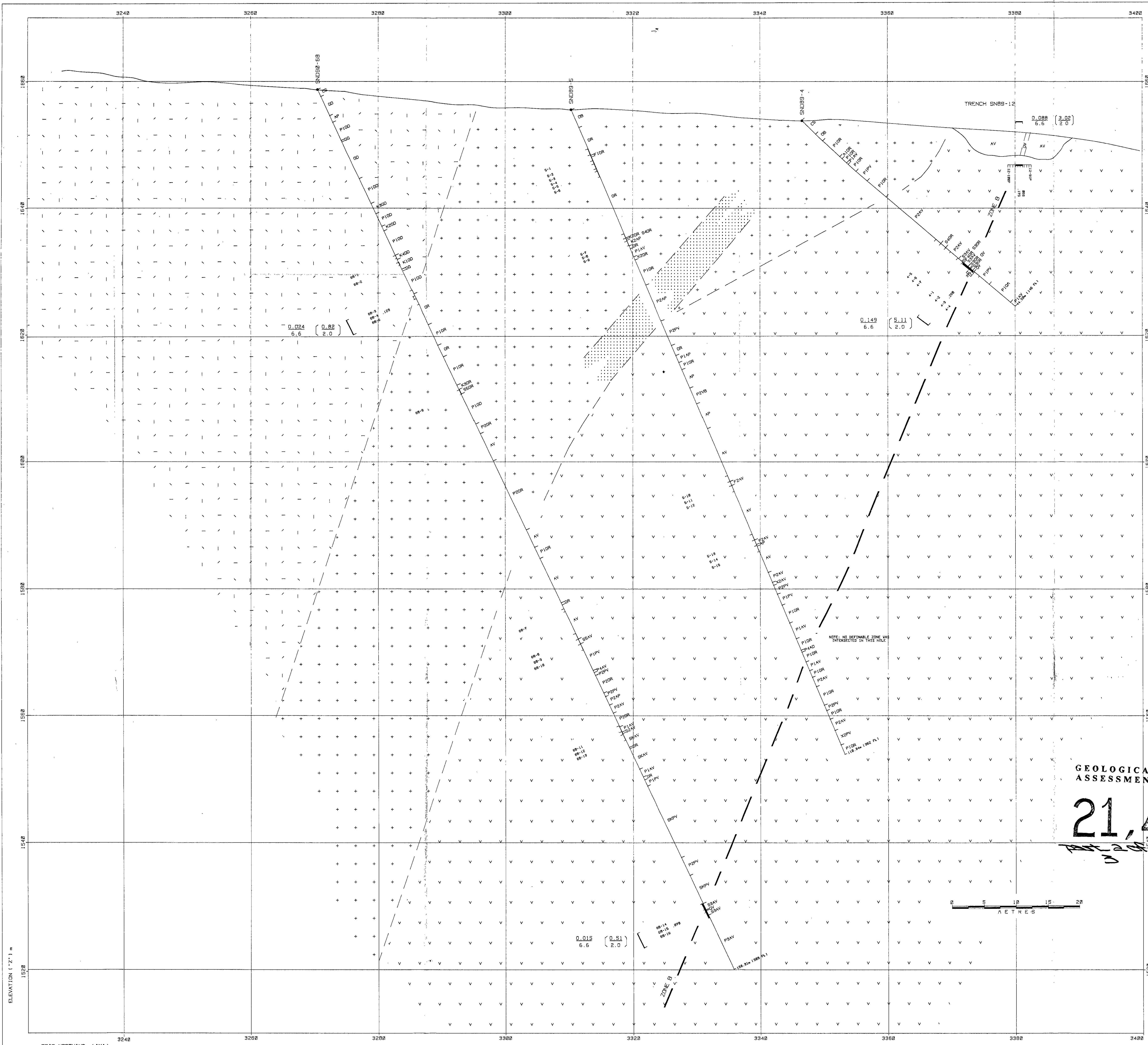
**FAIRFIELD MINERALS LTD.**

**ELK PROPERTY**  
SIWASH AREA DIVISION, BRITISH COLUMBIA  
NTS 82M 18V

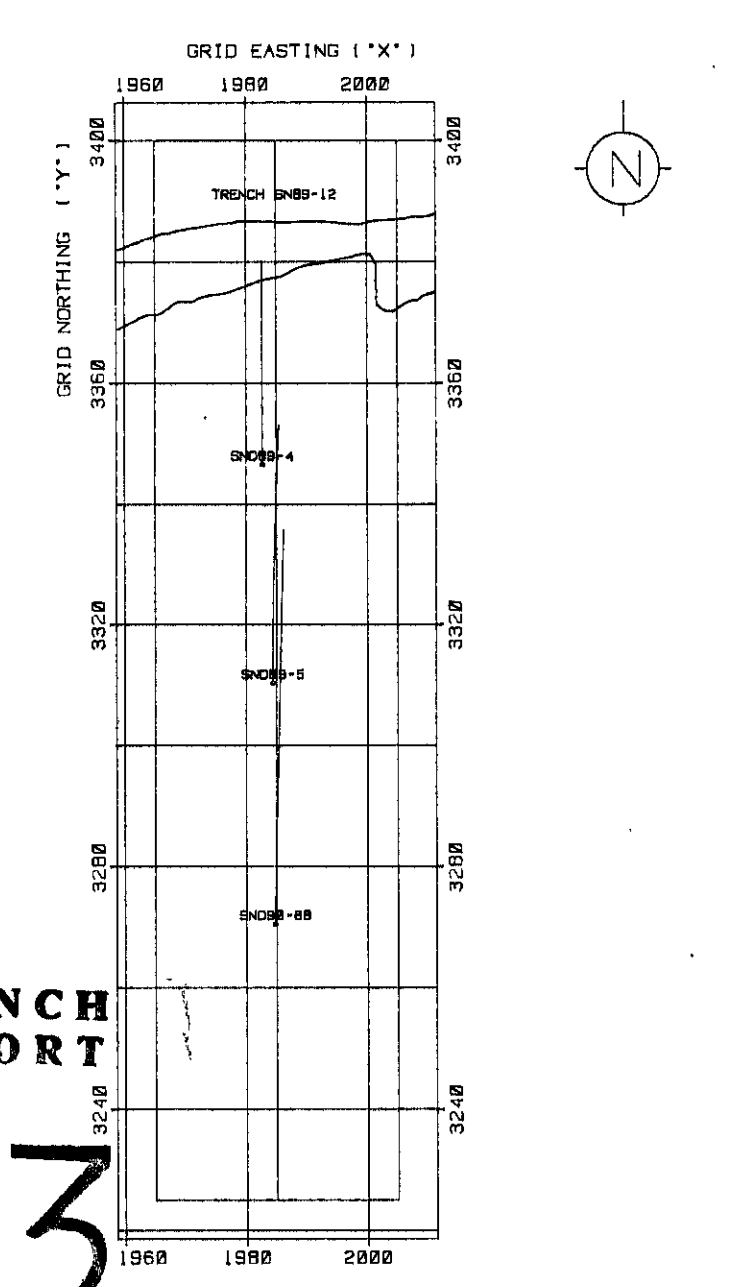
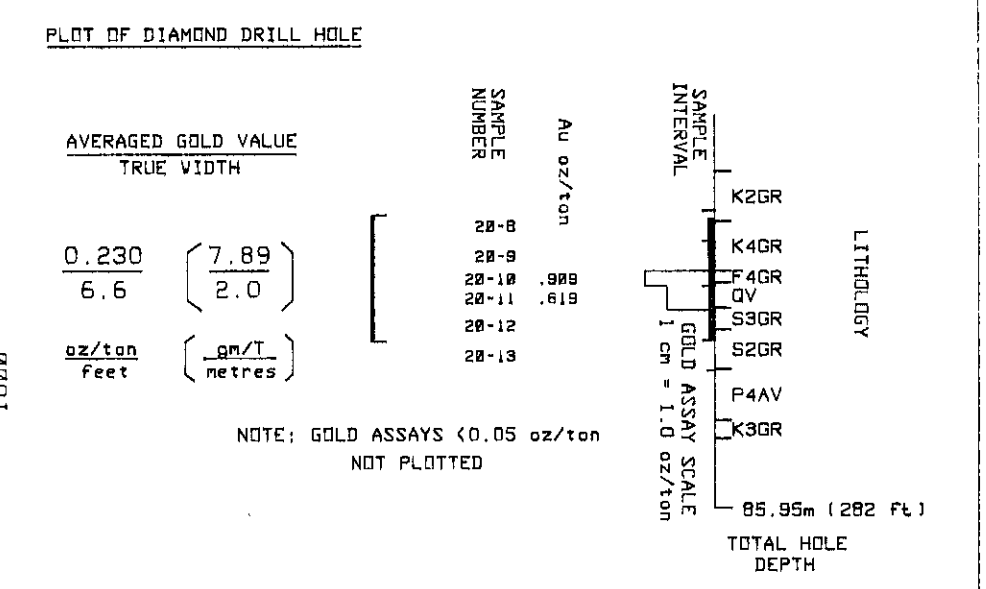
**SIWASH NORTH AREA**  
**DIAMOND DRILL SECTION 1940E**  
(LOOKING WEST)

SCALE = 1 : 250

CORILLERAN ENGINEERING LTD.  
1988 - 1955 V. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9



- LEGEND**
- LITHOLOGY**
- CS CASING
  - MI MISSING CORE
  - DB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE pure grayish-green to silvery-green, fine grained to weakly porphyritic
  - GO GOUSE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - DV QUARTZ VEIN white to gray quartz, with some unhercynite commonly 100 to 200 pyrite with lesser chloropyrite, apatite, goethite, tetrahedrite; rare visible gold
- JURASSIC**
- DISPREY LAKE BATHOLITH
- AP APLITE pink to light gray, very fine grained with occasional pegmatitic veins
  - GD GRANODIORITE medium to dark gray, fine to medium grained, up to 15% biotite or hornblende
  - GR GRANITE, GRANITIC (unveiled) pink to pinkish gray, medium-grained, abundant K-spar, some hornblende
  - QH QUARTZ MONZONITE light to medium pinkish gray, coarse grained augen-granite with up to 15% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS
- AV ANDESITIC VOLCANIC dark gray-green to near black, very fine-grained to subvolcanic
  - (PV) PORPHYRIC VOLCANIC as above; phenocrysts of plagioclase or hornblende
  - (VB) VOLCANIC BRECCIA as above, brecciated with andesitic matrix which may contain up to 5% pyrite; pyrite:apatite:chloropyrite
- ALTERATION CODES**
- A(n) ARGILLIC
  - Ph(n) PHYLIC
  - FK K-spar STABLE PHYLIC
  - Kn(n) POTASSIC
  - P(n) PORPHYRIC
  - St(n) SERICITIC
  - SK SKARN
  - X(n) SILICIFICATION
  - (n = ) TO 5, WEAK TO INTENSE
- SYMBOLS**
- lithological contact
  - - - trace of mineralized structure
  - ~ fault or shear
  - averaged trench sample interval



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**21,443**

LOCATION OF THIS CROSS-SECTION

XL	YL	XR	YR
1985E	3225N	1985E	3420N
WIDTH	2T	2B	
40m	1670m	1510m	

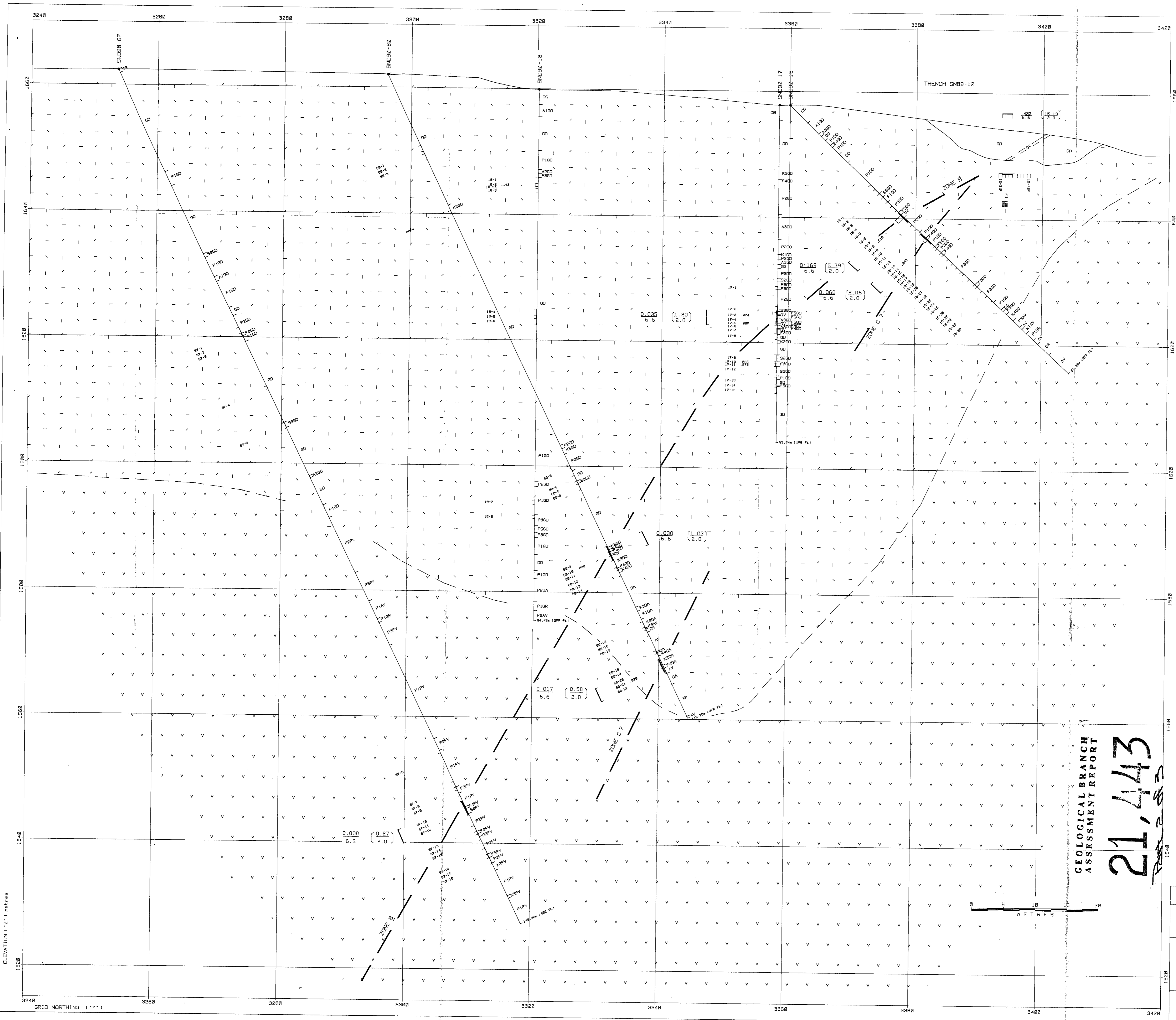
FAIRFIELD MINERALS LTD.

ELK PROPERTY  
SIWASH NORTH AREA

DIAMOND DRILL SECTION 1985E  
(LOOKING WEST)

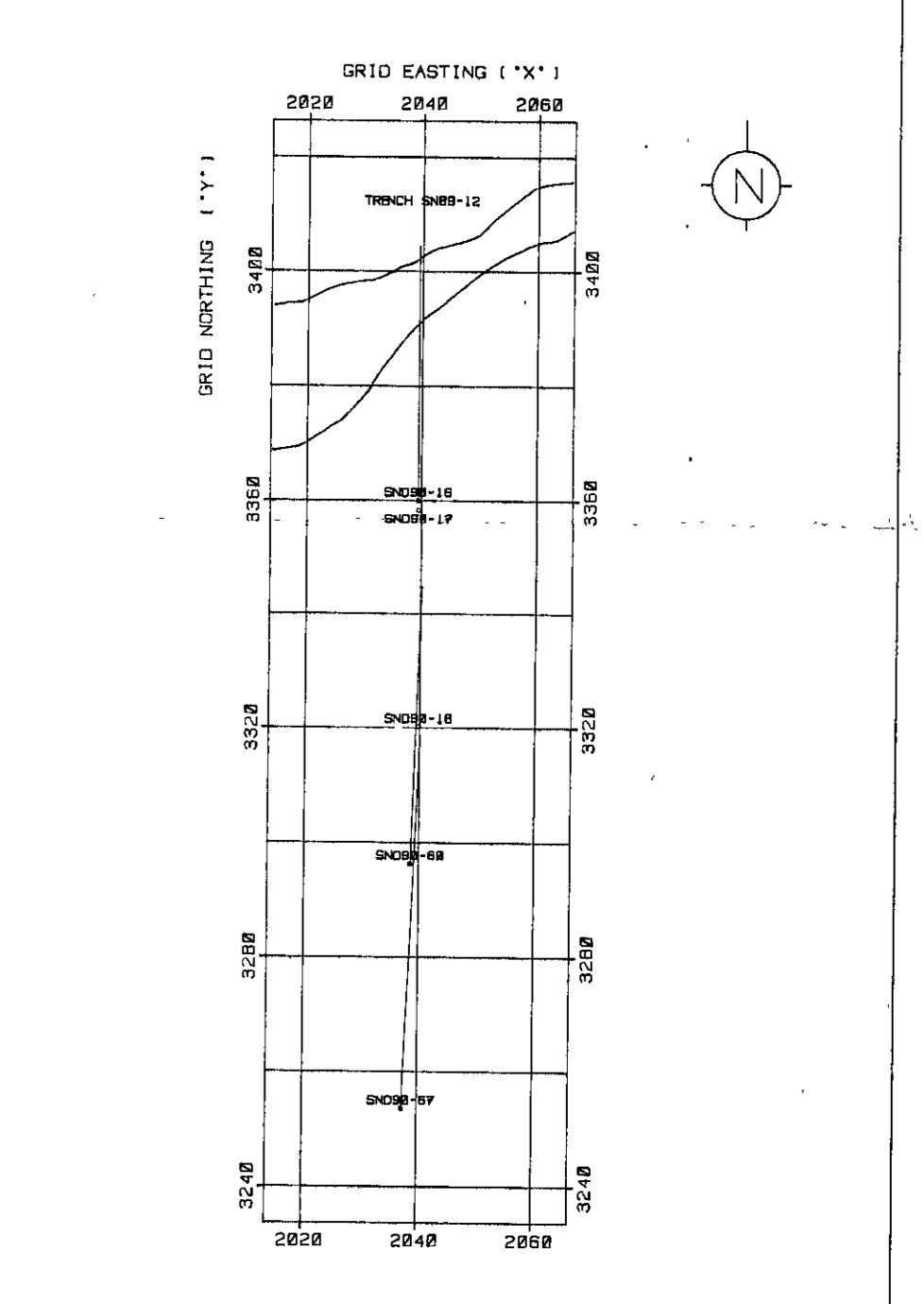
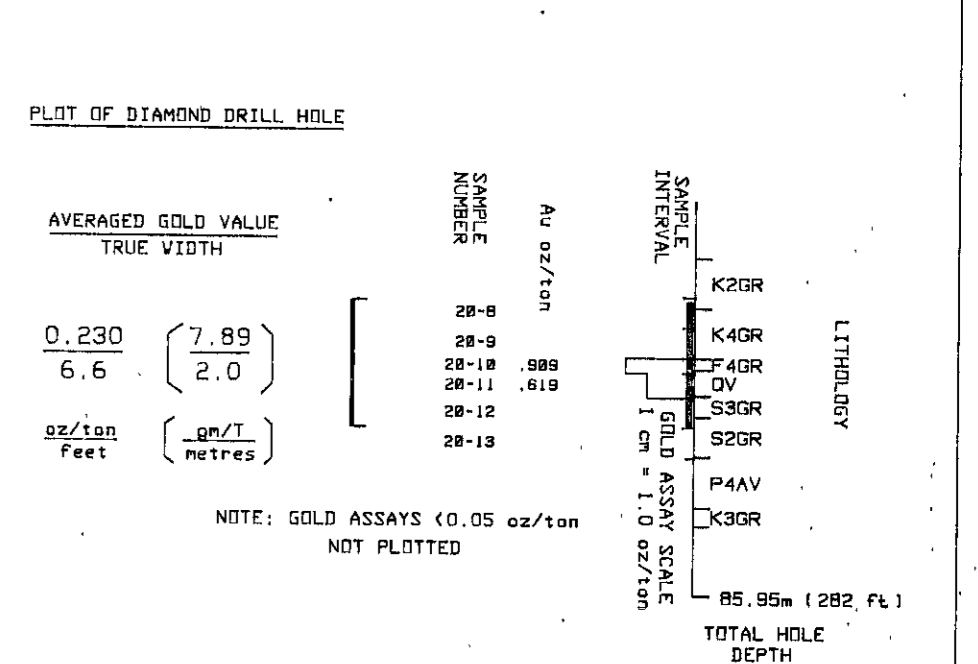
SCALE = 1 : 250

CORDELLERAN ENGINEERING LTD.  
1980 - 1985 V. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9



- LEGEND**
- LITHOLOGY**
- CS CASING
  - MI MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITIC DYKE dark greyish-green to olive-green, fine-grained to weakly porphyritic
  - GG GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - DV QUARTZ VEIN white to grey quartz with some unkerite; commonly 100 to 300 µm wide with lesser chlorite, apatite, goethite, tetrahedrite; rare visible gold
- JURASSIC**
- OSPREY LAKE BATHOLITH
- AP APLITE pink to light grey, very fine-grained with occasional pegmatitic veins
  - GD GRANODIORITE medium to dark grey, fine to medium grained, up to 100 biotite or hornblende
  - GR GRANITE, GRANITIC (UNDIVIDED) pink to pinkish grey, medium-grained, abundant K-spar, some cordierite
  - DM QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS
- AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to aphanitic
- (PV) PORPHYRITIC VOLCANIC as above, phenocrysts of plagioclase or hornblende
- (VB) VOLCANIC BRECCIA as above, brecciated with andesitic matrix which may contain up to 20% pyrite-pyrrhotite-chalcopyrite

- ALTERATION CODES**
- A(n) ARGILLIC P(n) PROPYLITIC
  - PH(n) PHYLIC S(n) SERICITIC
  - PK K-spar STABLE PHYLIC SK SKARN
  - Min(n) POTASSIC X(n) SILICIFICATION (n = 1 TO 5, WEAK TO INTENSE)
- SYMBOLS**
- lithological contact
  - - - trace of mineralized structure
  - ~ ~ ~ fault or shear
  - averaged trench sample interval



**LOCATION OF THIS CROSS-SECTION**

XL	YL	XR	YR
2040E	3240N	2040E	3420N
WIDTH	ZT	ZB	
40m	1672m	1515m	

**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**  
21,443

FAIRFIELD MINERALS LTD.

ELK PROPERTY  
STALKAMEN MINING DIVISION, BRITISH COLUMBIA  
NTS 524 15V

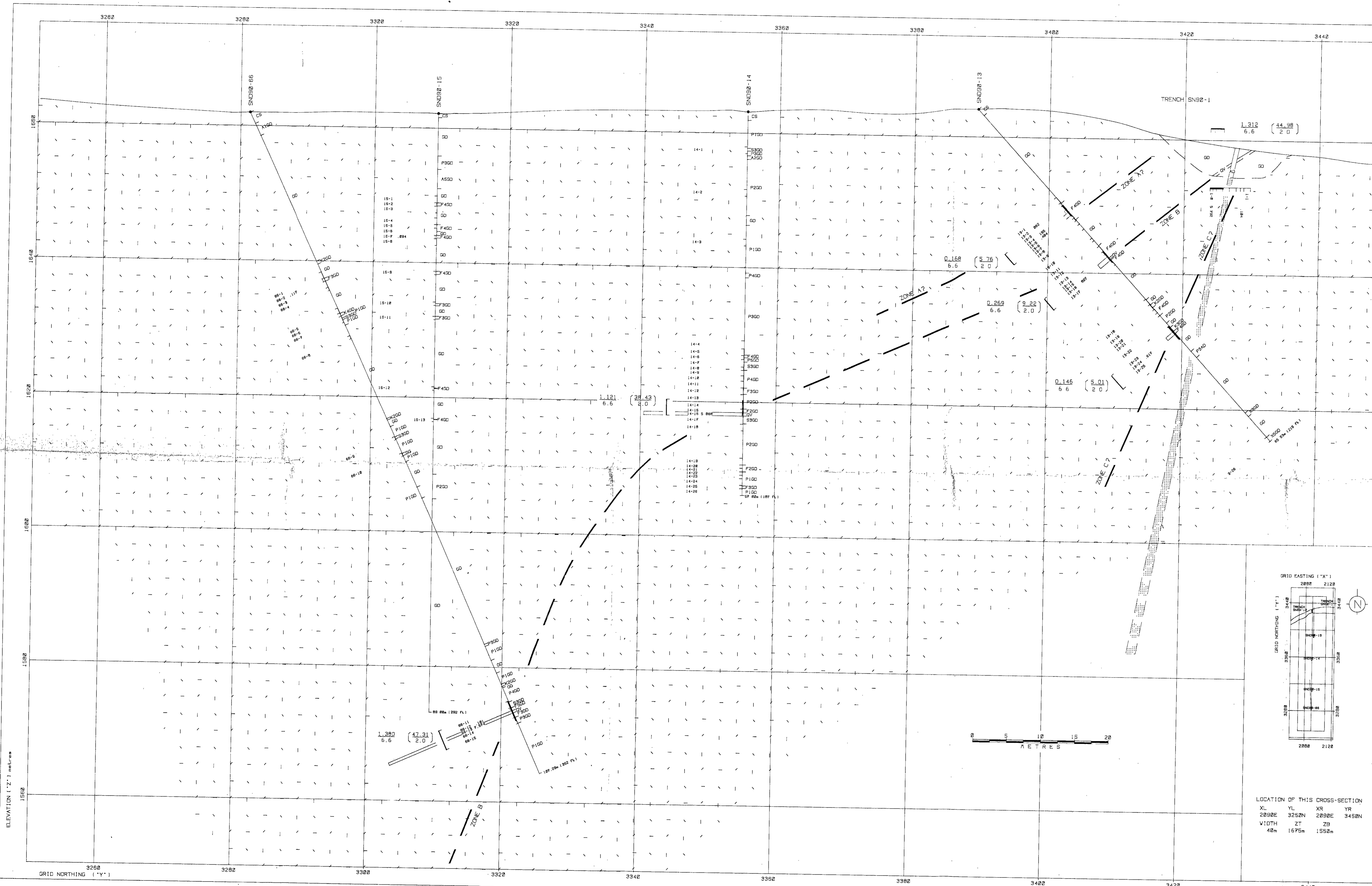
SIWASH NORTH AREA  
DIAMOND DRILL SECTION 2040E  
(LOOKING WEST)

SCALE = 1 : 250

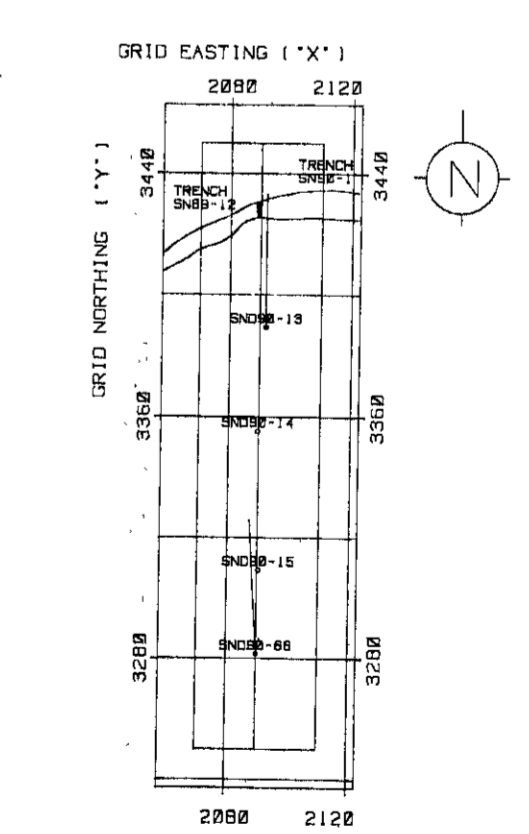
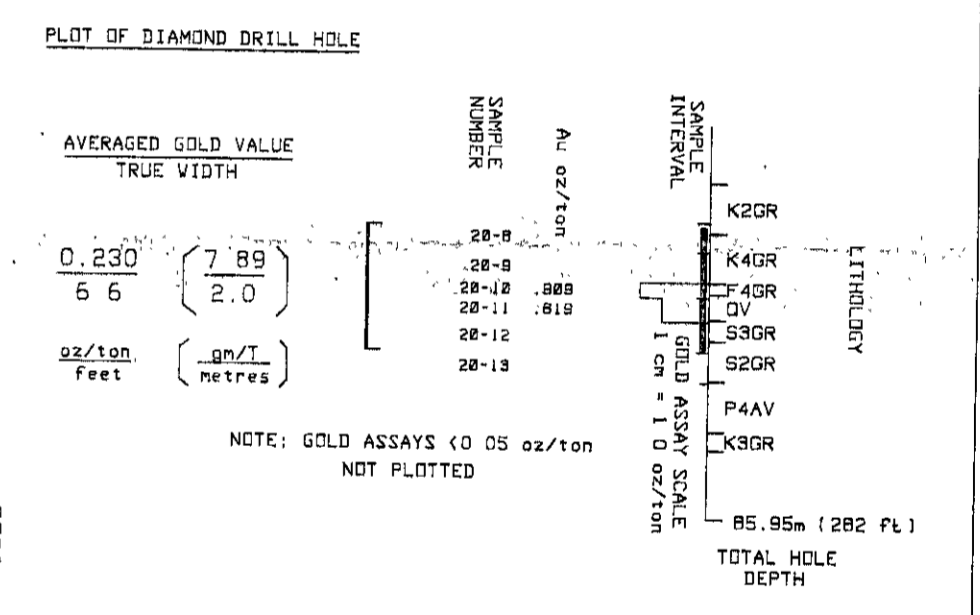
CORLISSAN ENGINEERING LTD.  
1980 - 1955 W. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9

DRAWN BY: PWC  
DATE: APRIL 1991

PLATE 16



- LEGEND**
- LITHOLOGY**
- CS CASING
  - MI MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive-green, fine-grained to weakly porphyritic
  - GG GOUSE clay-rich with numerous rock fragments, their fallation or banding may be evident
  - DV QUARTZ VEIN white to grey quartz, with some ankerite; commonly 100 to 200 pyrite with lesser chlorite, sphalerite, galena, tetrahedrite; rare visible gold
- JURASSIC**
- DEPREY LAKE BATHOLITH**
- AP APLITE pink to light grey, very fine-grained with occasional pegmatitic veins
  - GD GRANDIORITE medium to dark grey, fine to medium grained, up to 100 micrite or hornblende
  - GR GRANITE, GRANITIC (undivided) pink to pinkish grey, medium-grained; abundant K-spar, some hornblende
  - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained; abundant K-spar with up to 10% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS**
- AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to subvolcanic
  - (PV) PORPHYRITIC VOLCANIC as above, phenocrysts of plagioclase or hornblende
  - (VB) VOLCANIC MESSIA as above, associated with andesitic matrix which may contain up to 0.5% pyrite-spherrhotite-chalcocopyrite
- ALTERATION CODES**
- A(n) ARGILLIC P(n) PROPYLITIC
  - PH(n) PHYLIC S(n) SERICITIC
  - FK K-spar STABLE PHYLIC SK SKARN
  - KL(n) POTASSIC X(n) SILICIFICATION
  - (n = 1 TO 5, WEAK TO INTENSE)
- SYMBOLS**
- lithological contact
  - - - trace of mineralized structure
  - ~ fault or shear
  - averaged trench sample interval



LOCATION OF THIS CROSS-SECTION

XL	YL	XR	YR
2090E	3250N	2090E	3450N
WIDTH	ZT	ZB	
40m	1675m	1558m	

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**21,443**

*1997 2 9 3*

FAIRFIELD MINERALS LTD.

ELK PROPERTY

SIWASH NORTH AREA

DIAMOND DRILL SECTION 2090E

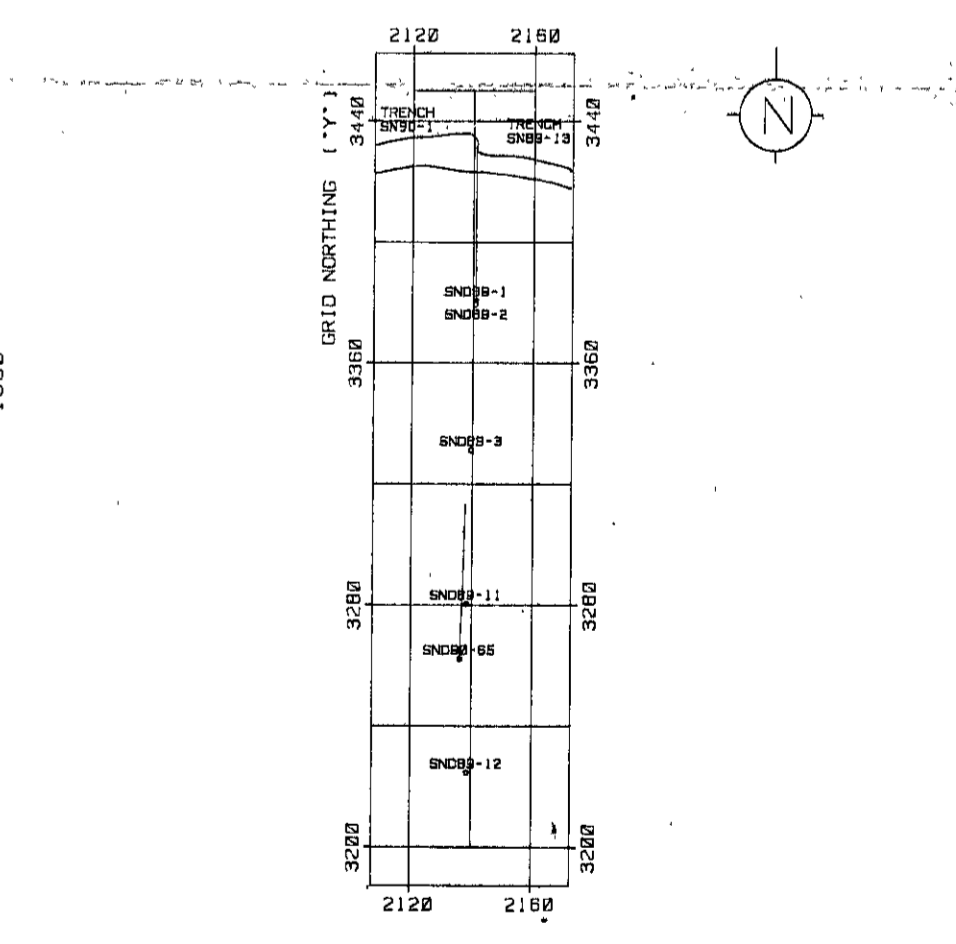
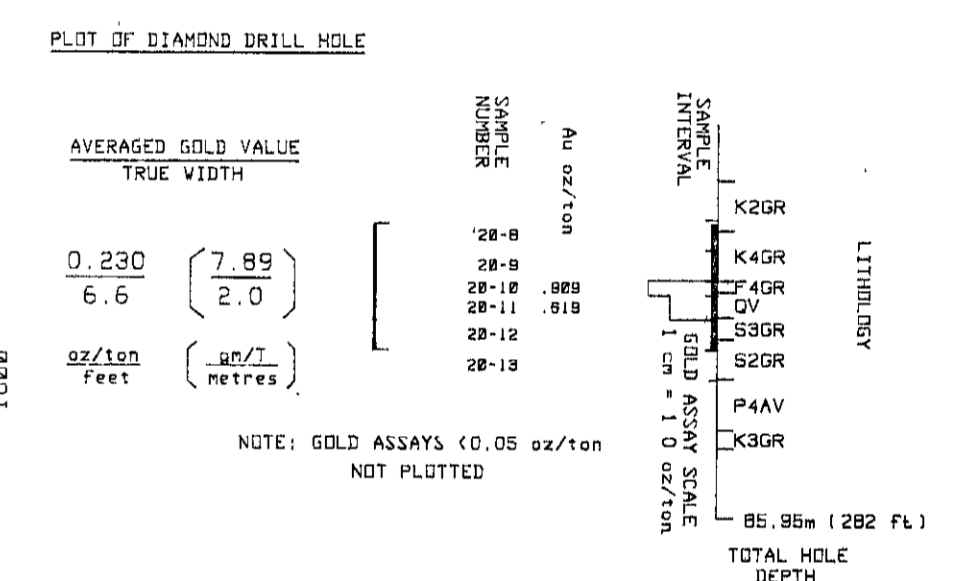
(LOOKING WEST)

SCALE = 1 : 250



21,473  
 GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

- LEGEND**
- LITHOLOGY**
- CS CASING
  - M1 MISSING CORE
  - DB OVERBURDEN
- TERTIARY**
- AC ANDESITE DYKE dark grayish-green to olive-green, fine-grained to weakly porphyritic
  - GG GOUZE clay-rich with numerous rock fragments, shear, faulting or bedding may be evident
  - QV QUARTZ VEIN white to gray quartz with some orientate; cement 100 to 300 pyrite with lesser chalcopyrite, sphalerite, galena, tetrahedrite; trace visible gold
- JURASSIC**
- JURASSIC LAKE BATHOLITH**
- AP APLITE pink to light gray, very fine-grained with occasional pegmatitic veins
  - GD GRANODIORITE medium to dark gray, fine to medium grained, up to 15% biotite or hornblende
  - GR GRANITE, GRANITIC (UNSPECIFIED) pink to pinkish gray, medium-grained, abundant K-fspar, some hornblende
  - DM QUARTZ MONZONITE light to medium pinkish gray, coarse grained equigranular with up to 15% biotite or hornblende
- TRIASIC**
- NICOLA GROUP VOLCANICS**
- AV ANDESITIC VOLCANIC dark gray-green to iron black, very fine-grained to aphanitic
  - (FV) FERRUGINOUS VOLCANIC as above, phenocrysts of plagioclase or hornblende
  - (VB) VOLCANIC BRECCIA as above, brecciated with andesitic matrix which may contain up to 5% pyrite/pyrrhotite-chalcopyrite
- ALTERATION CODES**
- A1) ARGILLIC
  - P1) PHYLIC
  - FK) K-fspar STABLE PHYLIC
  - K1) POTASSIUM (n = 1 TO 5, WEAK TO INTENSE)
  - P1) PROPYLITIC
  - Si) SERICITIC
  - SK) SKARN
  - Si) SILICIFICATION
- SYMBOLS**
- lithological contact
  - - - trace of mineralized structure
  - ~ fault or shear
  - averaged trench sample interval



FAIRFIELD MINERALS LTD.

ELK PROPERTY  
 SIATUKMEEN MINING DIVISION, BRITISH COLUMBIA  
 NTS 92M 10V

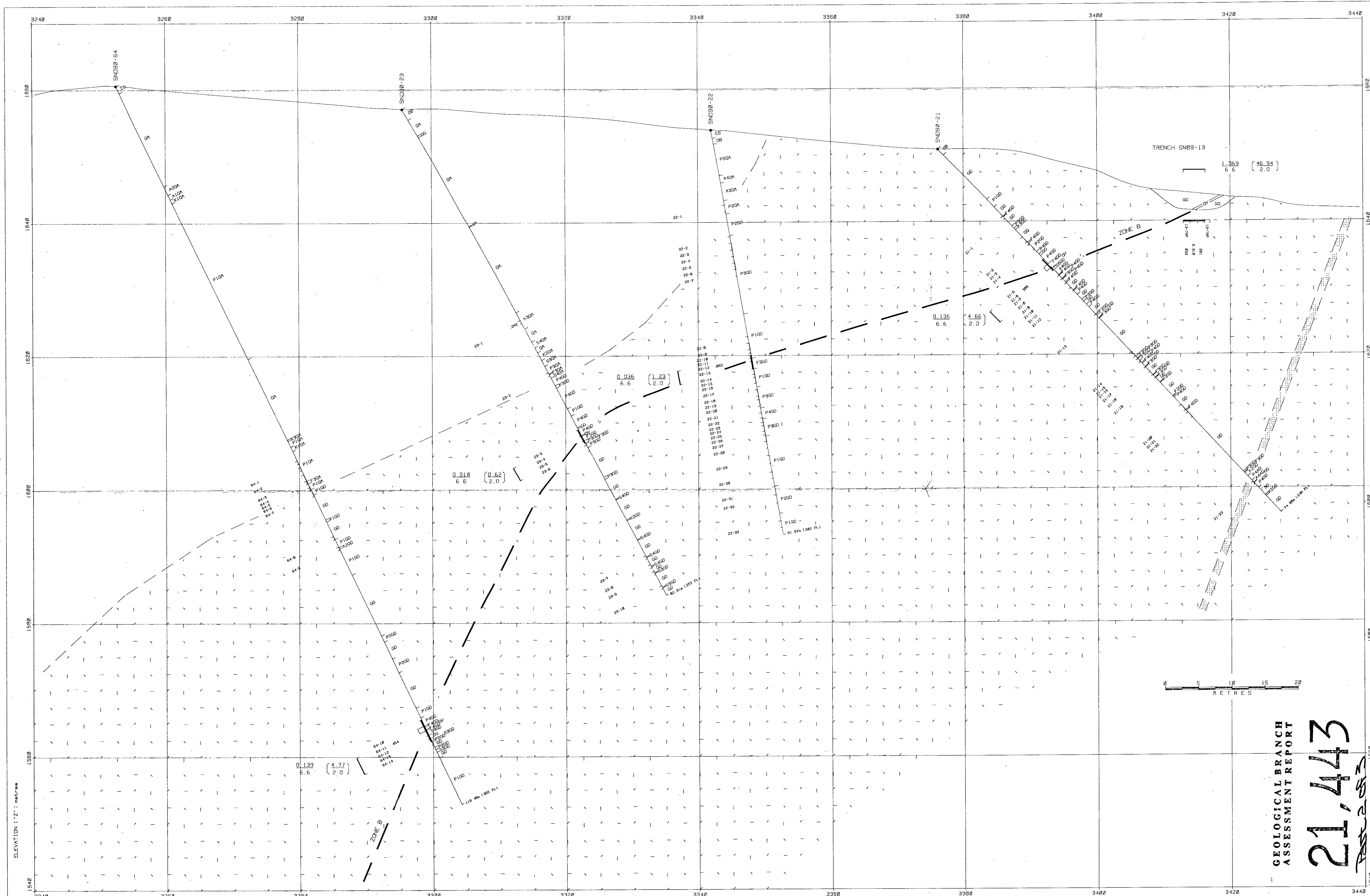
SIVASH NORTH AREA  
 DIAMOND DRILL SECTION 2140E  
 (LOOKING WEST)

SCALE = 1 : 250

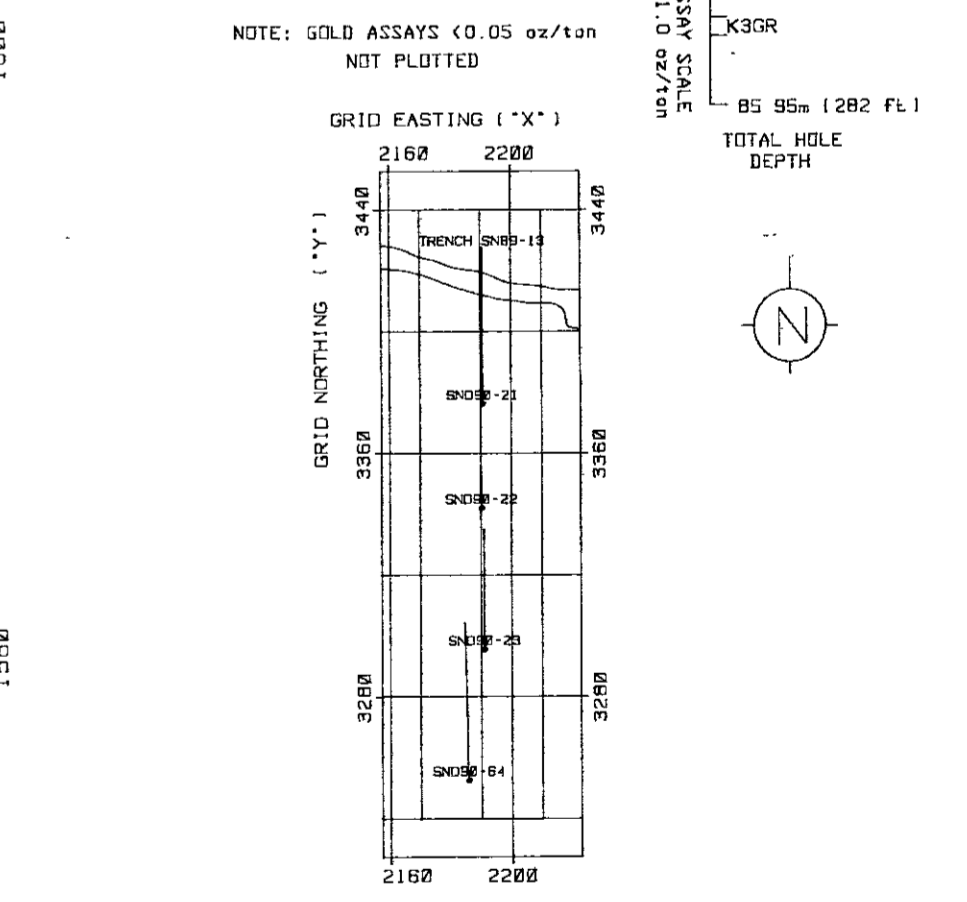
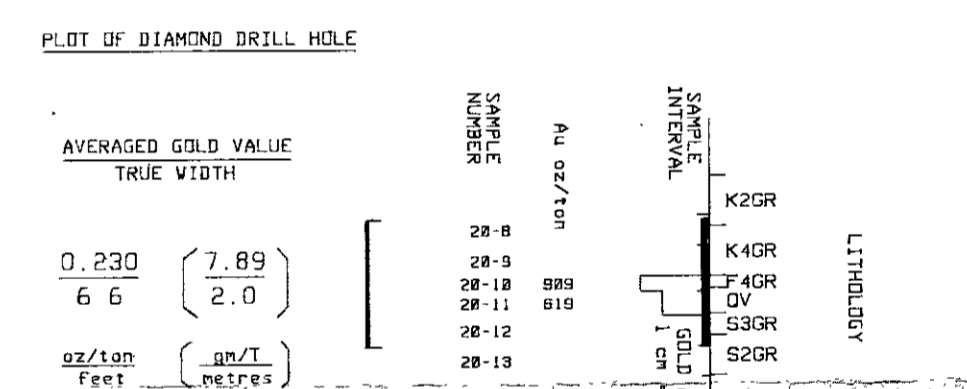
CORDELLERAN ENGINEERING LTD.  
 1900 - 1455 V. HASTINGS STREET  
 VANCOUVER, B.C. V6E 2E9

DRAWN BY: PNC  
 DATE: APRIL 1991

PLATE 1B



- LEGEND**
- LITHOLOGY**
- CS CASING
  - MI MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive-green, fine-grained to weakly porphyritic
  - GG GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - QV QUARTZ VEIN white to grey quartz with some andesite; commonly 10% to 30% pyrite with lesser chloropyrite, sphalerite, galena, tetrahedrite, rare visible gold
- JURASSIC**
- DISREY LAKE BATOLITH
- AP APLITE pink to light grey very fine-grained with occasional pegmatitic veins
  - GD GRANODIORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
  - GR GRANITE, GRANITIC (GNEISS) pink to pinkish grey, medium-grained abundant K-spar, some hornblende
  - QH QUARTZ MONZONITE light to medium pinkish grey coarse grained equigranular with up to 15% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS
- AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to aphanitic
  - (PV) PORPHYRITIC VOLCANIC as above, phenocrysts of plagioclase or hornblende
  - (LV) VOLCANIC BRECCIA as above, brecciated with andesitic matrix which may contain up to 25% pyrite-pyrrhotite-chalcopyrite
- ALTERATION CODES**
- A(n) ARGILLIC P(n) PROPYLITIC
  - PH(n) PHYLIC S(n) SERICITIC
  - FK K-spar STABLE PHYLIC SK SKARN
  - K(n) POTASSIC X(n) SILICIFICATION (n = 1 TO 5 WEAK TO INTENSE)
- SYMBOLS**
- lithological contact
  - - - trace of mineralized structure
  - ~ fault or shear
  - averaged trench sample interval



**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**  
21,443  
*Post 2003*

FAIRFIELD MINERALS LTD.

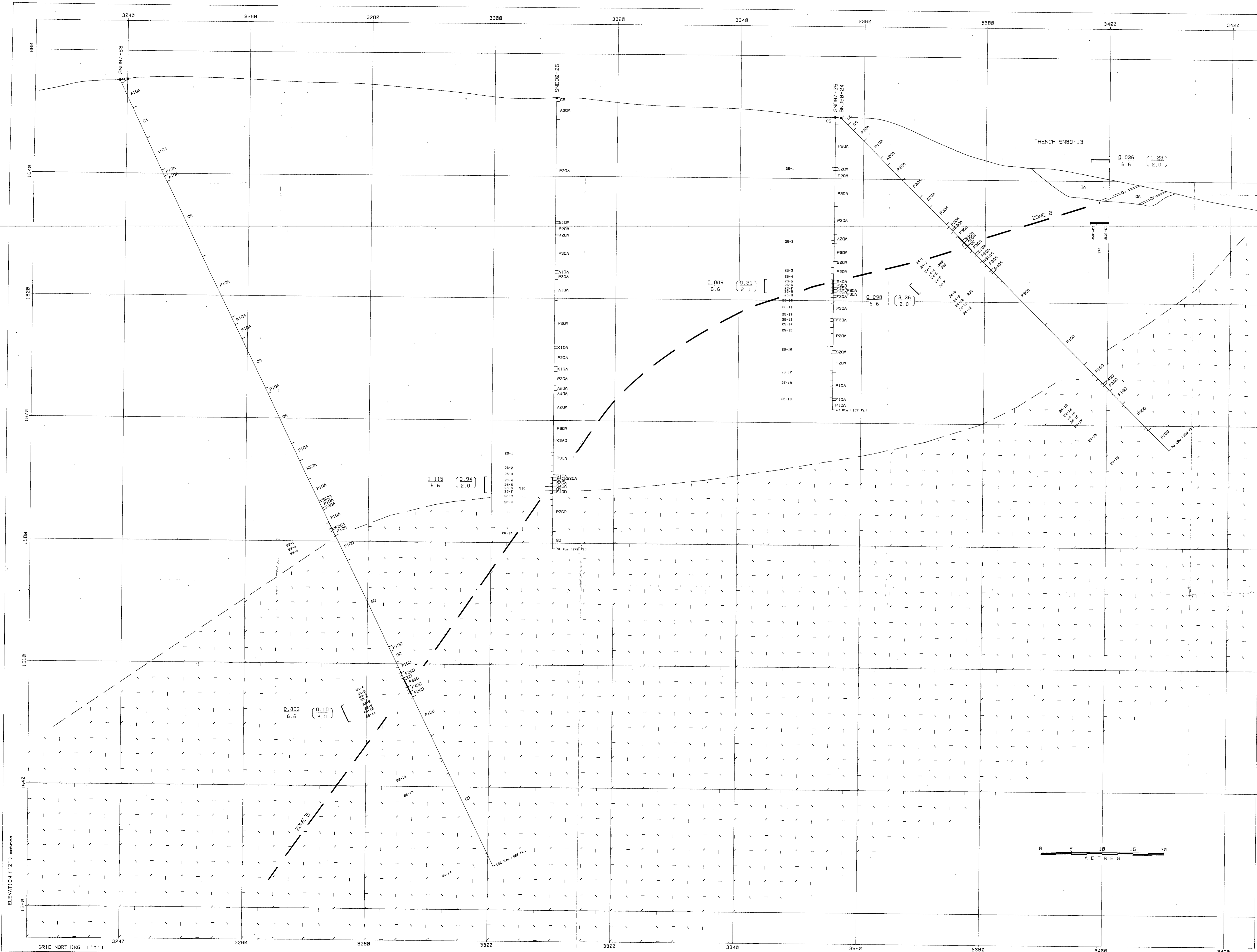
ELK PROPERTY  
 STALKAMEN MINING DIVISION BRITISH COLUMBIA  
 NTS 92H 16V

SIWASH NORTH AREA  
 DIAMOND DRILL SECTION 2190E  
 (LOOKING WEST)  
 SCALE = 1 : 250

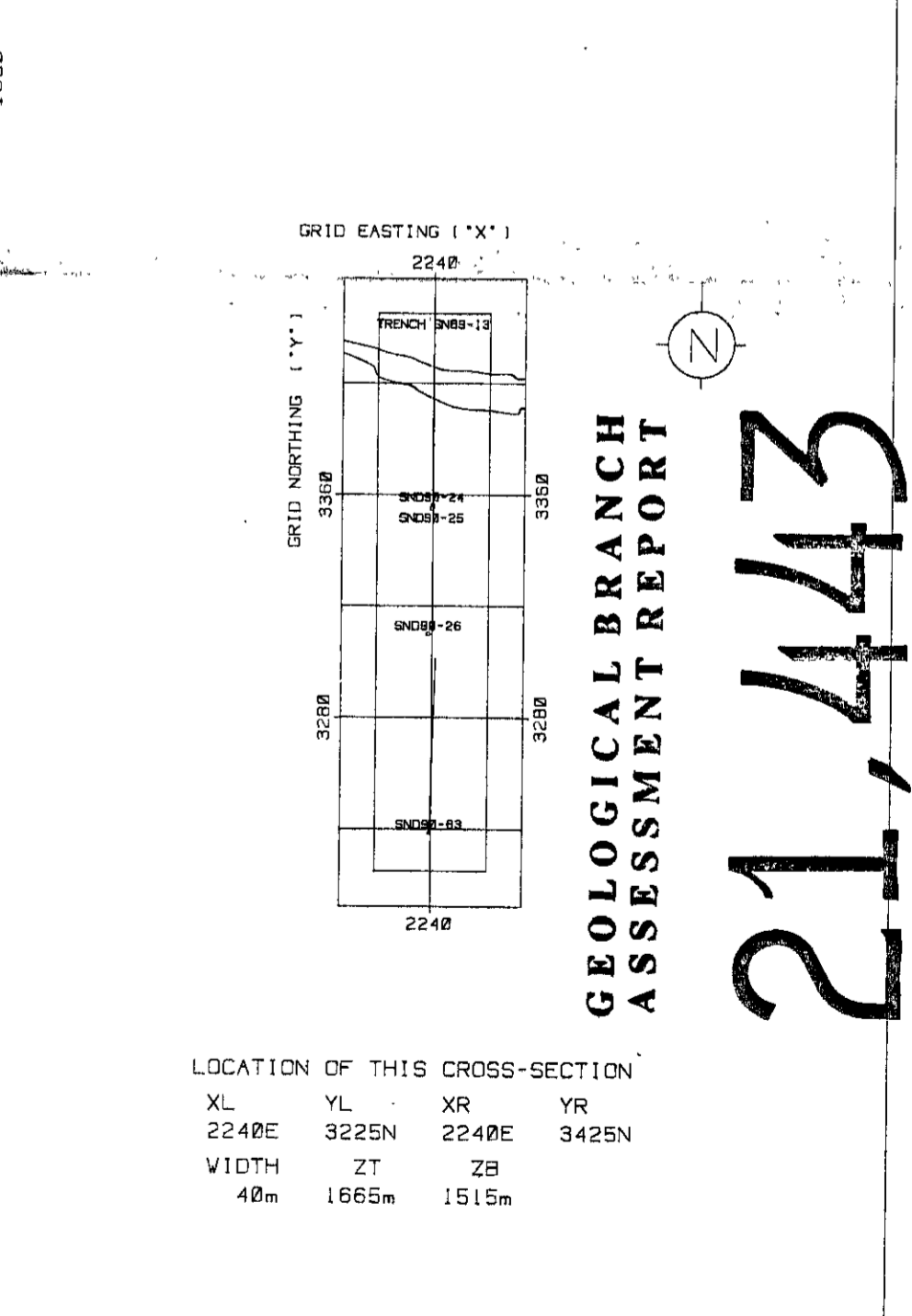
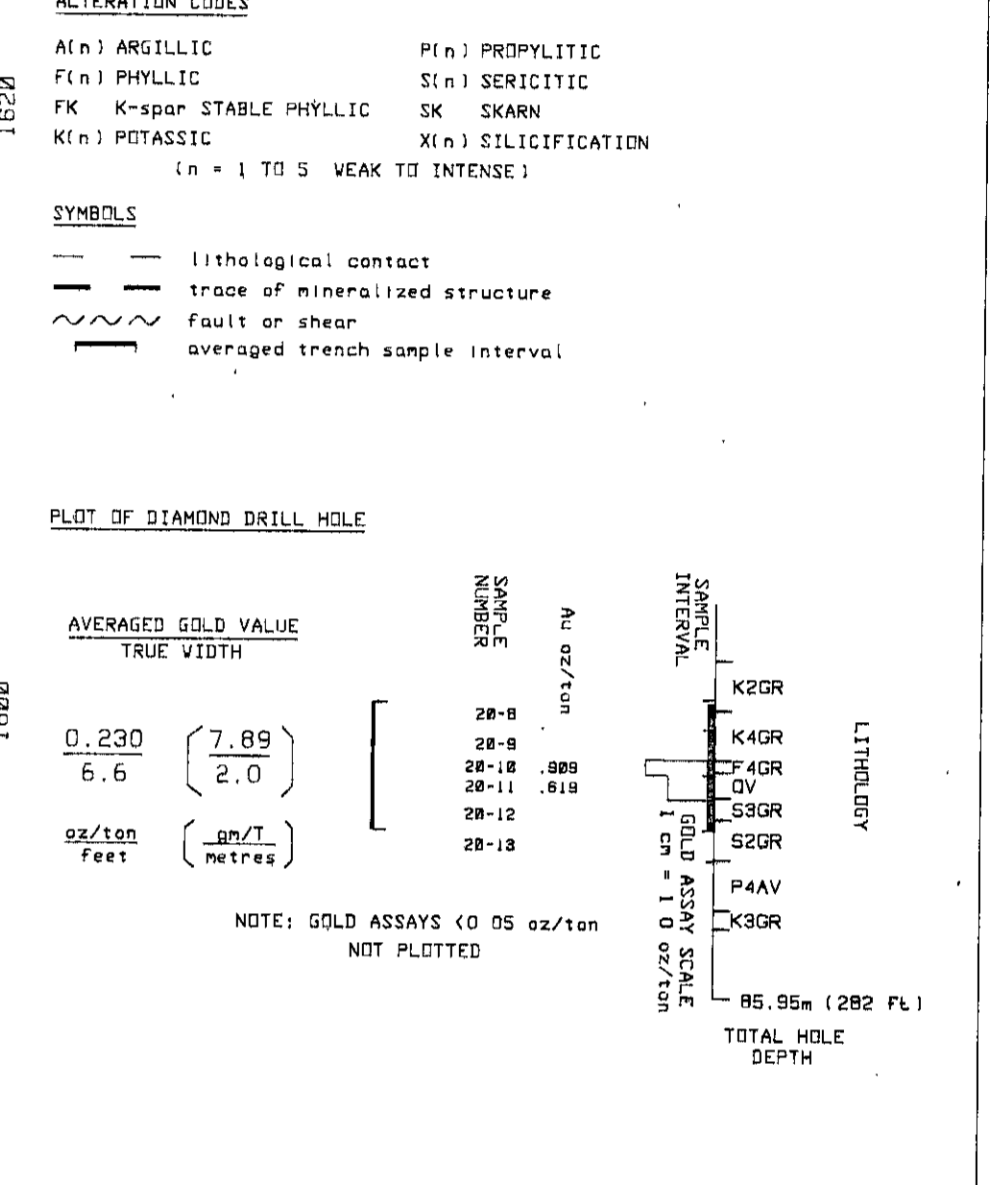
CORDELLERAN ENGINEERING LTD.  
 908 - 1855 W. HASTINGS STREET  
 VANCOUVER, B.C. V6E 2E9

DRAWN BY: PWC  
 DATE: APRIL 1991

PLATE 19



- LEGEND**
- LITHOLOGY**
- CS CASING
  - MI MISSING CORE
  - DB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive-green, fine-grained to weakly porphyritic
  - GG GULGE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - QV QUARTZ VEIN white to grey quartz, with some ankerite; commonly 100 to 500 particles with lesser chloritoid, epidote, albite, tetrahedrite; rare visible gold
- JURASSIC**
- TORREY LAKE BATHOLITH**
- AP APLITE pink to light grey, very fine-grained with occasional pegmatitic veins
  - GD GRANODIORITE medium to dark grey, fine to medium grained, up to 10% biotite or hornblende
  - GR GRANITE, GRANITIC (UNDIVIDED) pink to pinkish grey, medium-grained, abundant K-spar, some hornblende
  - QH QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 10% biotite or hornblende
- TRIASSIC**
- NEOMA-GROUP VOLCANICS**
- AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to aphanitic
  - (PV) PORPHYRIC VOLCANIC as above, phenocrysts of plagioclase or hornblende
  - (VB) VOLCANIC BRECCIA as above, brecciated with andesitic matrix which may contain up to 0.5% pyrite-perthite inclusions
- ALTERATION CODES**
- Al) ARGILLIC
  - Pr) PROPYLITIC
  - Ph) PHYLIC
  - St) STIBIC
  - Fk) K-spar STABLE PHYLIC
  - Sx) SKARN
  - Kin) POTASSIC
  - Xn) SILICIFICATION
- (n = 1 TO 5 WEAK TO INTENSE)
- SYMBOLS**
- lithological contact
  - - - trace of mineralized structure
  - ~ fault or shear
  - averaged trench sample interval



**FAIRFIELD MINERALS LTD.**

**ELK PROPERTY**  
SIATUKANEEN MINING DIVISION, BRITISH COLUMBIA  
NTS 82H 16V

**SIWASH NORTH AREA**  
**DIAMOND DRILL SECTION 2240E**  
(LOOKING WEST)

**SCALE = 1 : 250**

COROLLERAN ENGINEERING LTD  
1900 - 1055 V. HASTINGS STREET  
VANCOUVER, B.C. V6C 2E9

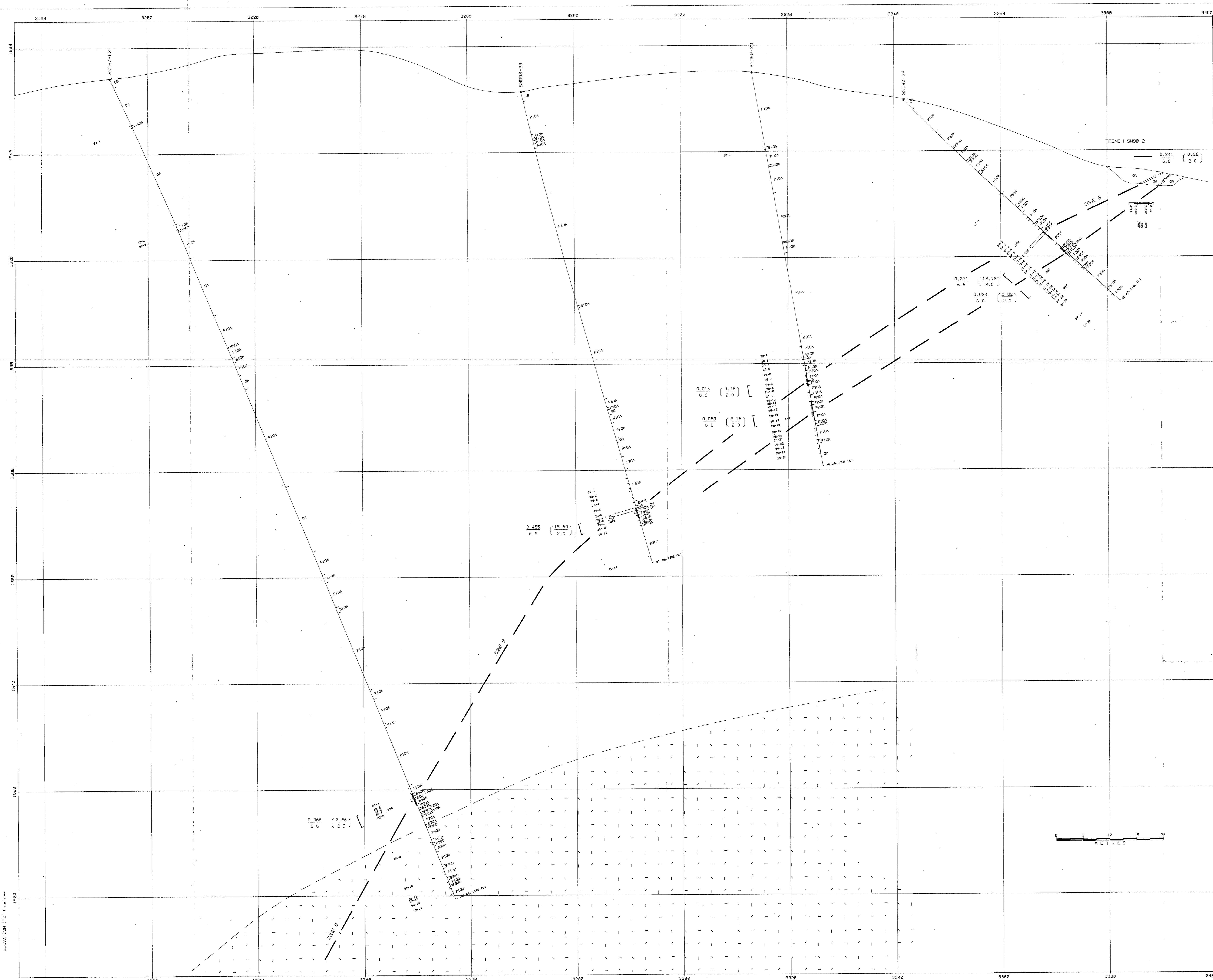
DRAWN BY: PVC  
DATE: APRIL 1991

FLATE 20

**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**

**21,443**

Page 2 of 2

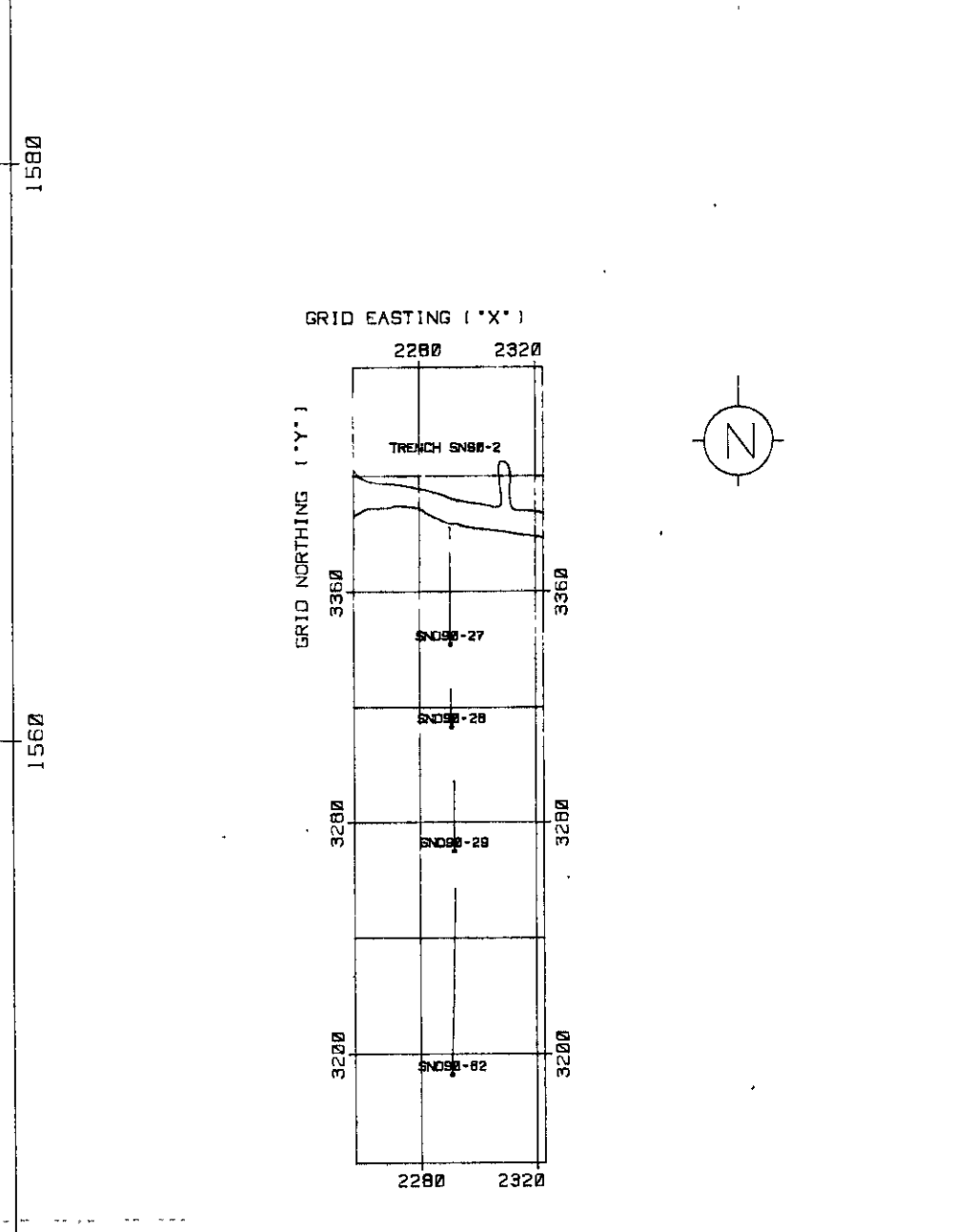


- LEGEND**
- LITHOLOGY**
- CS CASING
  - MI MISSING CORE
  - DB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark grey-green to black, fine-grained to stony porphyritic
  - GV GOUGE clayey with numerous rock fragments, some fragments of bedding may be visible
  - DV QUARTZ VEIN white to grey quartz, with some andesite country rock to 200 g/t with lesser andesite, sphalerite, galena, tetrahedrite, rare malachite and
- JURASSIC**
- DISNEY LAKE BATHOLITH**
- AP APLITE pink to light grey, very fine-grained with occasional pegmatitic veins
  - GD GRANODIORITE medium to dark grey, fine to medium grained, up to 100 g/t with lesser andesite, sphalerite, galena, tetrahedrite, rare malachite and
  - GR GRANITE, GRANITIC (FINGERED) pink to pinkish grey, medium-grained abundant of quartz, some pyroxene
  - DM QUARTZ MONZONITE light to medium pinkish grey, coarse grained megacrystic with up to 100 g/t malachite or barite and
- TRIASSIC**
- NIELLA GROUP VOLCANICS**
- AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to aphanitic
  - (PV) PORPHYRIC VOLCANIC as above, phenocrysts of plagioclase or hornblende
  - (VB) VOLCANIC BRECCIA as above, brecciated with andesitic matrix which may contain up to 100 g/t pyrite/sphalerite-malachite
- ALTERATION CODES**
- Al) ARSILIC P) PROPYLITIC
  - Fl) PHYLIC Si) SERICITIC
  - FK) K-FELDER STABLE PHYLIC SO) SOON
  - Ki) KARSIC M) SILICIFICATION
  - IN = 1 TO 5, WEAK TO INTENSE
- SYMBOLS**
- lithological contact
  - trace of mineralized structure
  - Fault or shear
  - averaged trench sample interval

**PLUG OF DIAMOND DRILL HOLE**

DEPTH (METRES)	DIAMETER (CM)	REMARKS
0.000	10.00	Surface
0.014	10.00	0.014 g/t Au
0.053	10.00	0.053 g/t Au
0.455	10.00	0.455 g/t Au
0.066	10.00	0.066 g/t Au
1.000	10.00	1.000 m depth
2.000	10.00	2.000 m depth
3.000	10.00	3.000 m depth
4.000	10.00	4.000 m depth
5.000	10.00	5.000 m depth
6.000	10.00	6.000 m depth
7.000	10.00	7.000 m depth
8.000	10.00	8.000 m depth
9.000	10.00	9.000 m depth
10.000	10.00	10.000 m depth
11.000	10.00	11.000 m depth
12.000	10.00	12.000 m depth
13.000	10.00	13.000 m depth
14.000	10.00	14.000 m depth
15.000	10.00	15.000 m depth
16.000	10.00	16.000 m depth
17.000	10.00	17.000 m depth
18.000	10.00	18.000 m depth
19.000	10.00	19.000 m depth
20.000	10.00	20.000 m depth
21.000	10.00	21.000 m depth
22.000	10.00	22.000 m depth
23.000	10.00	23.000 m depth
24.000	10.00	24.000 m depth
25.000	10.00	25.000 m depth
26.000	10.00	26.000 m depth
27.000	10.00	27.000 m depth
28.000	10.00	28.000 m depth
29.000	10.00	29.000 m depth
30.000	10.00	30.000 m depth
31.000	10.00	31.000 m depth
32.000	10.00	32.000 m depth
33.000	10.00	33.000 m depth
34.000	10.00	34.000 m depth
35.000	10.00	35.000 m depth
36.000	10.00	36.000 m depth
37.000	10.00	37.000 m depth
38.000	10.00	38.000 m depth
39.000	10.00	39.000 m depth
40.000	10.00	40.000 m depth
41.000	10.00	41.000 m depth
42.000	10.00	42.000 m depth
43.000	10.00	43.000 m depth
44.000	10.00	44.000 m depth
45.000	10.00	45.000 m depth
46.000	10.00	46.000 m depth
47.000	10.00	47.000 m depth
48.000	10.00	48.000 m depth
49.000	10.00	49.000 m depth
50.000	10.00	50.000 m depth

NOTE: GOLD ASSAYS (0.05 g/t Au) NOT PLOTTED



**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**21,443**

**FAIRFIELD MINERALS LTD.**

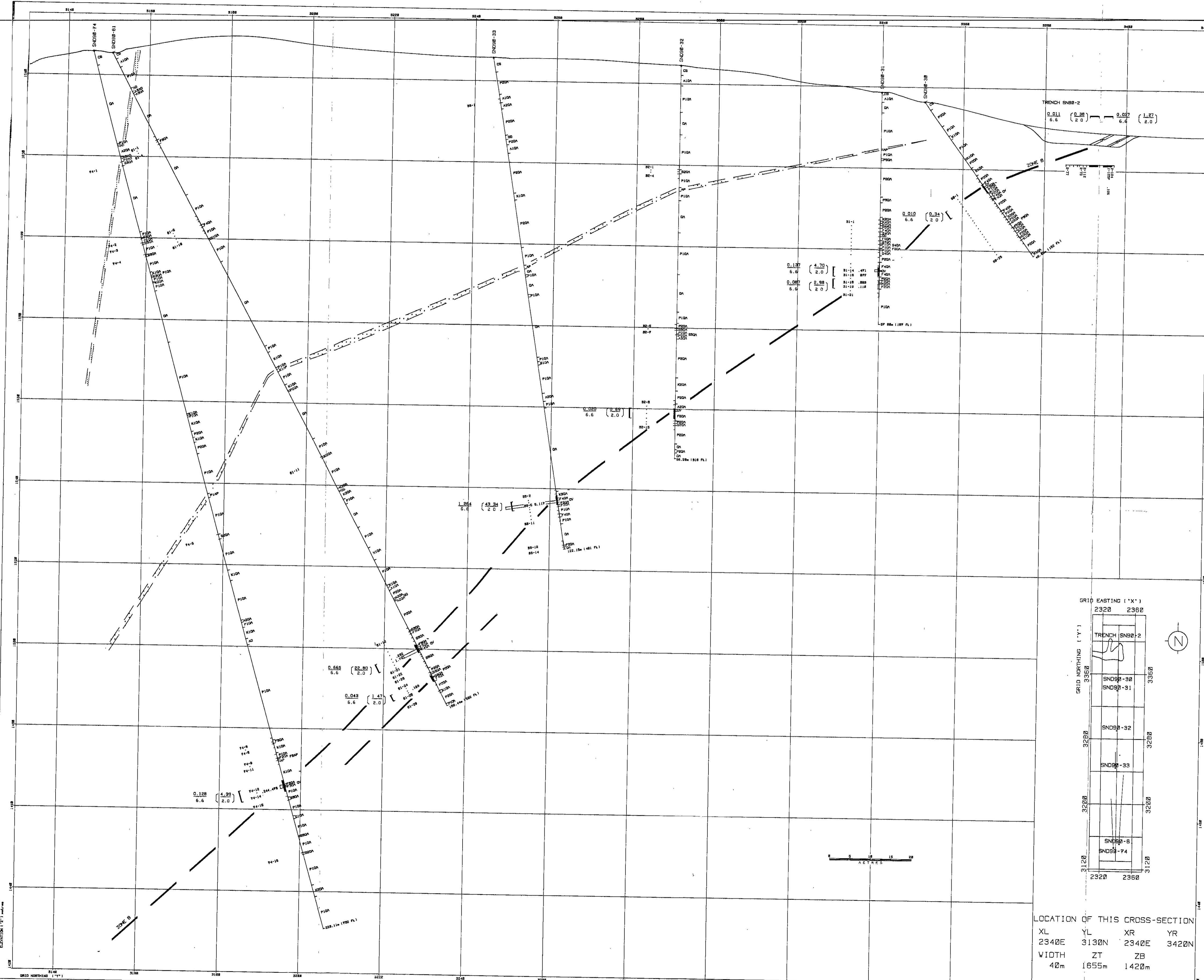
**ELK PROPERTY**  
STALKAMEN MINING DIVISION, BRITISH COLUMBIA  
NTS 924 18V

**SIVASH NORTH AREA**  
**DIAMOND DRILL SECTION 2290E**  
LOOKING WEST  
SCALE - 1:250

**CORBULLAN ENGINEERING LTD.**  
1088 - 1825 W. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E8

**DATE: APRIL 1991** **PLATE 21**





**LEGEND**

**LITHOLOGY**

CS CASING  
MI MISSING CORE  
DB OVERBURDEN

**TERTIARY**

AD ANDESITE DYKE dark greyish-green to olive-green. Fine-grained to weakly porphyritic  
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 50% pyrite with lesser chloropyrite, sphalerite, galena, tetrahedrite; rare visible gold

**JURASSIC**

OSPREY LAKE BATHOLITH

AP APLITE pink to light grey, very fine-grained with occasional pegmatitic veins  
GD GRANDIODORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende  
GR GRANITE, GRANITIC (UNDIVIDED) pink to pinkish grey, medium-grained, abundant K-spar, some hornblende  
QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende

**TRIASSIC**

NICOLA GROUP VOLCANICS

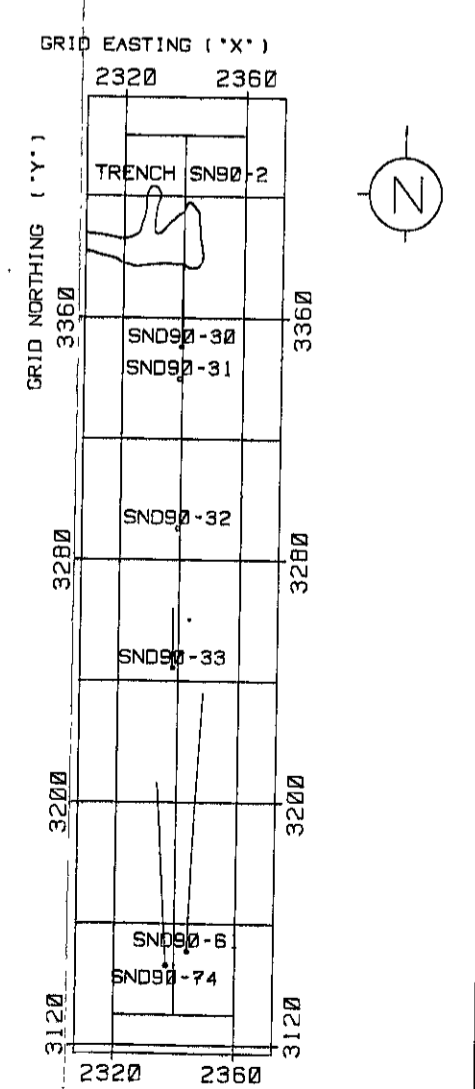
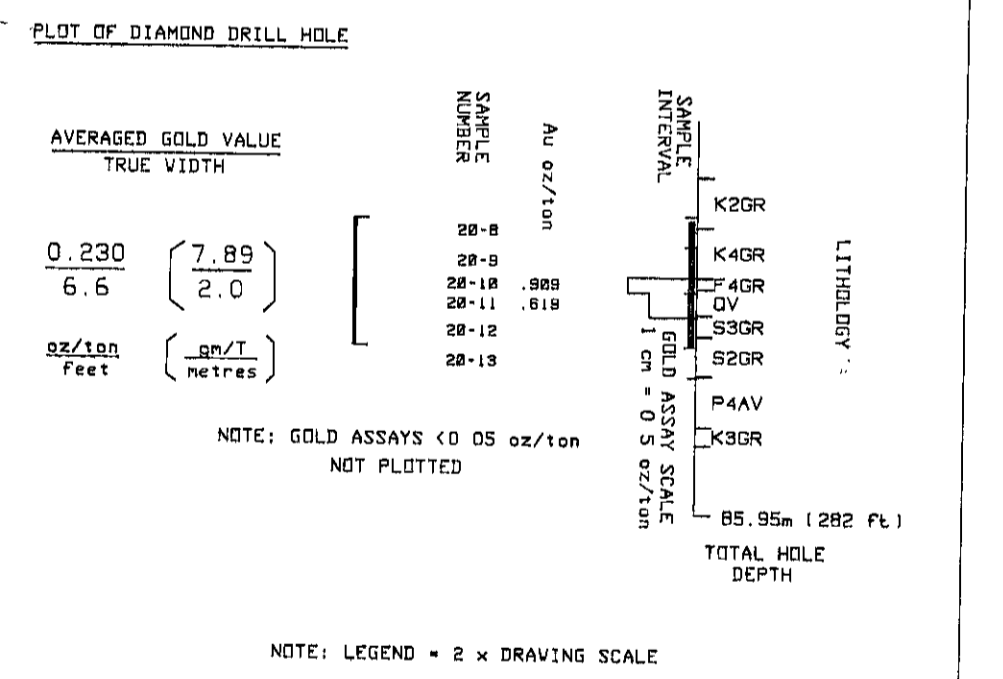
AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to aphanitic  
(PV) PORPHYRITIC VOLCANIC as above, phenocrysts of plagioclase or hornblende  
(VB) VOLCANIC BRECCIA as above, brecciated with andesitic matrix which may contain up to 25% pyrite/pyrrhotite/chalcopyrite

**ALTERATION CODES**

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

**SYMBOLS**

— lithological contact  
- - - trace of mineralized structure  
~ ~ ~ fault or shear  
- - - averaged trench sample interval



**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**21,443**

FAIRFIELD MINERALS LTD.

ELK PROPERTY  
STATLKAMEEN MINING DIVISION, BRITISH COLUMBIA  
NTS 92H 16V

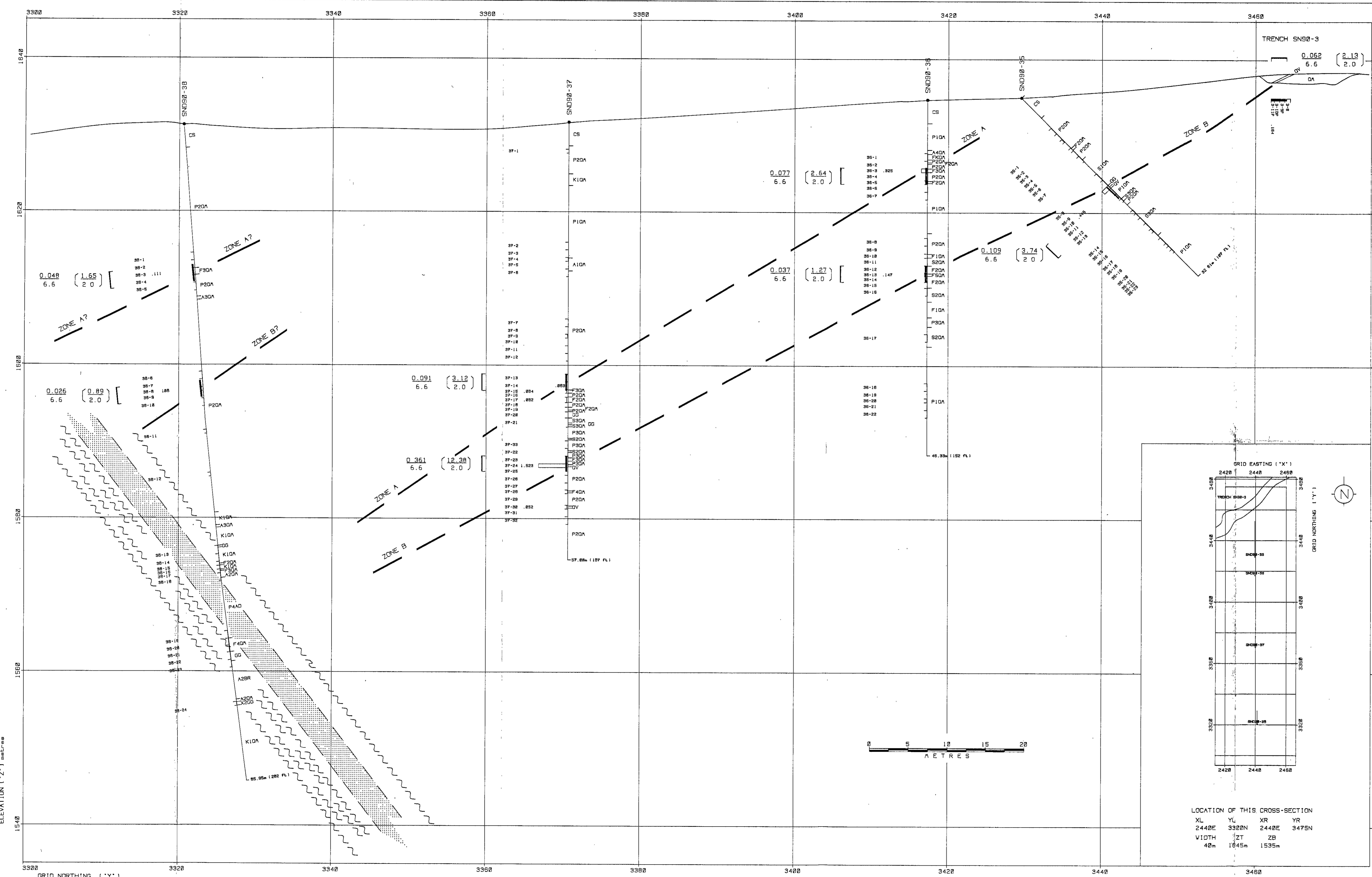
SIWASH NORTH AREA  
DIAMOND DRILL SECTION 2340E  
(LOOKING WEST)  
SCALE = 1 : 500

CORDILLERAN ENGINEERING LTD.  
1980 - 1855 W. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9

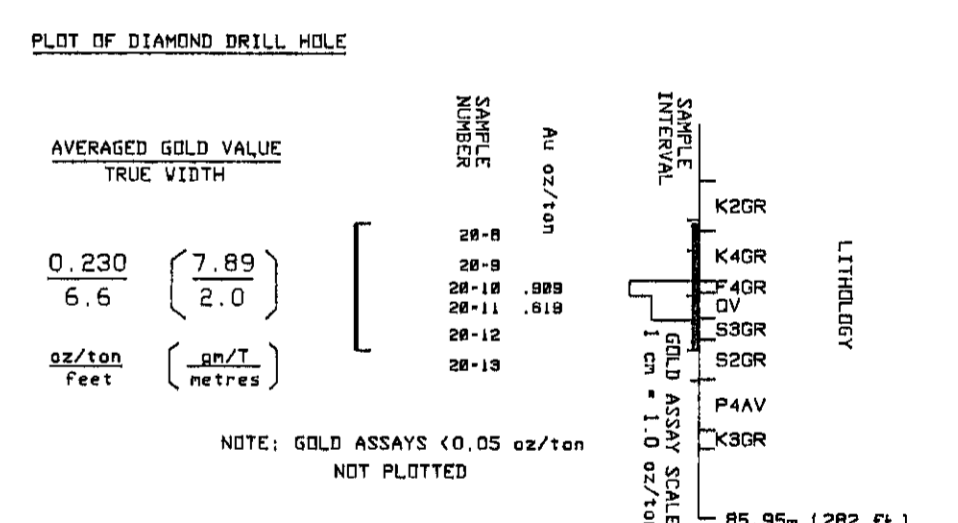
DRAWN BY: P.V.C.  
DATE: APRIL 1981

PLATE 22





- LEGEND**
- LITHOLOGY**
- CS CASING
  - M1 MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive-green, fine-grained to weakly porphyritic
  - GG GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - DV QUARTZ VEIN white to grey quartz with some ankerite; commonly 10% to 30% pyrite with lesser chalcopyrite, sphalerite, galena, tetrahedrite; rare visible gold
- JURASSIC**
- OSPREY LAKE BATHOLITH
- AP APLITE pink to light grey, very fine-grained with occasional pegmatitic veins
  - GD GRANDIODORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
  - GR GRANITE, GRANITIC (UNDIVIDED) pink to pinkish grey, medium-grained, abundant K-spar, some hornblende
  - QH QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS
- AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to ophanitic
  - (PV) PORPHYRITIC VOLCANIC as above, phenocrysts of plagioclase or hornblende
  - (VB) VOLCANIC BRECCIA as above, brecciated with andesitic matrix which may contain up to 25% pyrite-pyrrhotite-chalcopyrite
- ALTERATION CODES**
- A(n) ARGILLIC
  - F(n) PHYLLIC
  - FK K-spar STABLE PHYLLIC
  - K(n) POTASSIC
  - P(n) PROPYLITIC
  - S(n) SERICITIC
  - SK SKARN
  - X(n) SILICIFICATION
- (n = 1 TO 5, WEAK TO INTENSE)
- SYMBOLS**
- lithological contact
  - - - trace of mineralized structure
  - ~ fault or shear
  - averaged trench sample interval



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

# 21,443

APR 2 1991

FAIRFIELD MINERALS LTD.

ELK PROPERTY  
SAILKARREN MINING DIVISION, BRITISH COLUMBIA  
NTS 92H 18V

SIWASH NORTH AREA  
DIAMOND DRILL SECTION 2440E  
(LOOKING WEST)

SCALE = 1 : 250

COROLLERAN ENGINEERING LTD  
1950 - 1955 W. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9

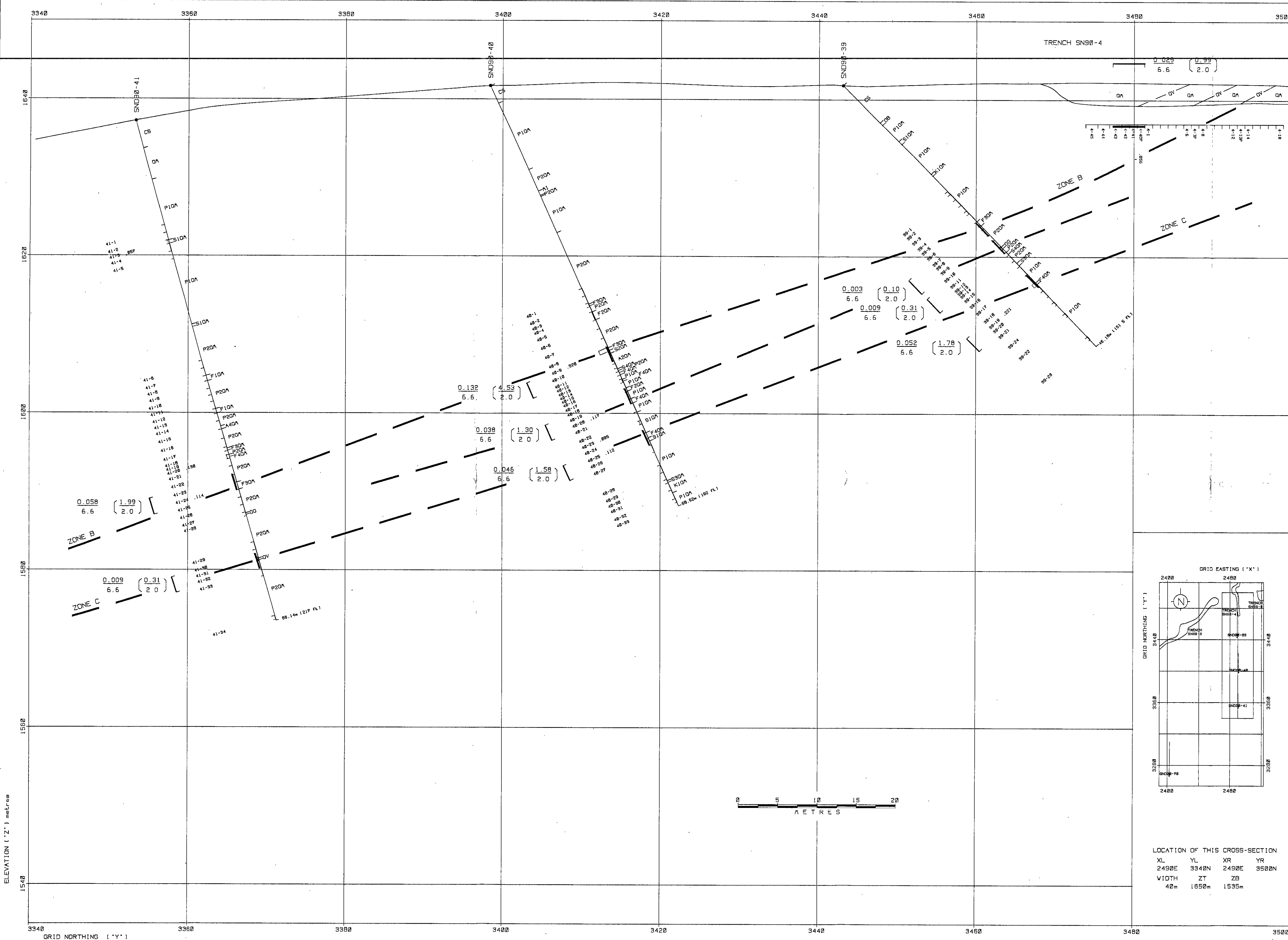
DRAWN BY: PVC  
DATE: APRIL 1991

PLATE 24

LOCATION OF THIS CROSS-SECTION

XL	YL	XR	YR
2440E	3320N	2440E	3475N
WIDTH	ZT	ZB	
40m	1645m	1535m	





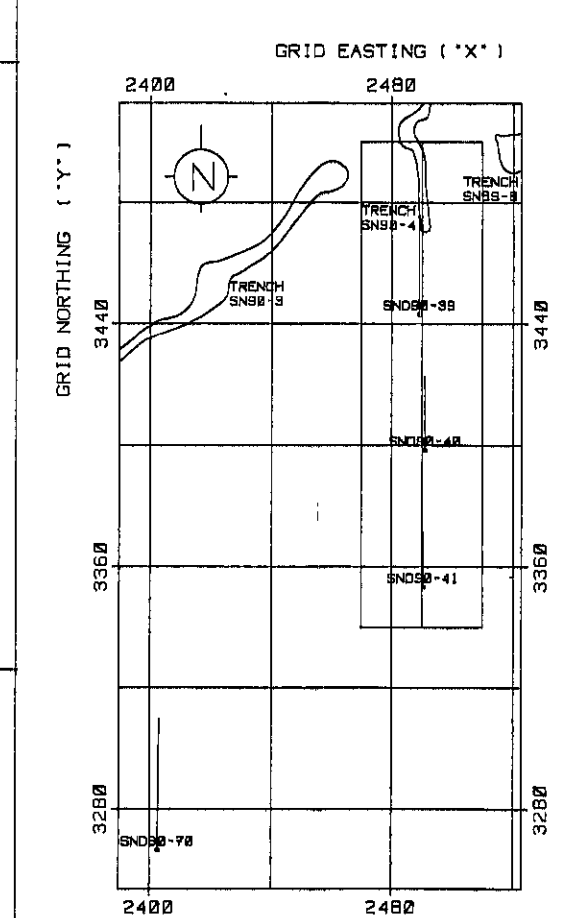
- LEGEND**
- LITHOLOGY**
- CS CASING
  - MI MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive-green, fine-grained to weakly porphyritic
  - GG GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - QV QUARTZ VEIN white to grey quartz with some ankerite; commonly 10% to 90% pyrite with lesser chloropyrite, sphalerite, galena, tetrahedrite; rare visible gold
- JURASSIC**
- DSPREY LAKE BATHOLITH
- AP APLITE pink to light grey, very fine-grained with occasional pegmatitic veins
  - GD GRANDIDIRITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
  - GR GRANITE, GRANITIC (UNDIVIDED) pink to pinkish grey, medium-grained, abundant K-spar, some hornblende
  - DM QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS
- AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to aphanitic
  - (PV) PORPHYRITIC VOLCANIC as above, phenocrysts of plagioclase or hornblende
  - (VB) VOLCANIC BRECCIA as above, brecciated with andesitic matrix which may contain up to 25% pyrite-pyrrhotite-analcymite
- ALTERATION CODES**
- A(n) ARGILLIC P(n) PROPYLITIC
  - F(n) PHYLIC S(n) SERICITIC
  - K-spar STABLE PHYLIC SK SKARN
  - K(n) POTASSIC (n = 1 TO 5, WEAK TO INTENSE)
- SYMBOLS**
- lithological contact
  - - - trace of mineralized structure
  - ~ ~ ~ fault or shear
  - averaged trench sample interval

**AV**

AVERAGED GOLD VALUE	TRUE WIDTH	SAMPLE NUMBER	INTERVAL	Au oz/ton	LITHOLOGY
0.230	7.99	28-6	K2GR		
6.6	2.0	28-9	K4GR		
		28-10	F4GR		
		28-11	QV		
		28-12	S3GR		
		28-13	S2GR		
		28-14	P4AV		
		28-15	K3GR		

NOTE: GOLD ASSAYS < 0.05 oz/ton NOT PLOTTED

TOTAL HOLE DEPTH: 85.95m (282 Ft.)



**LOCATION OF THIS CROSS-SECTION**

XL	YL	XR	YR
2490E	3340N	2490E	3500N
WIDTH	ZT	ZB	
40m	1650m	1535m	

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**21,443**

*APR 2 1993*

FAIRFIELD MINERALS LTD.

ELK PROPERTY  
SIWASH NORTH AREA  
DIAMOND DRILL SECTION 2490E  
(LOOKING WEST)

SCALE = 1 : 250

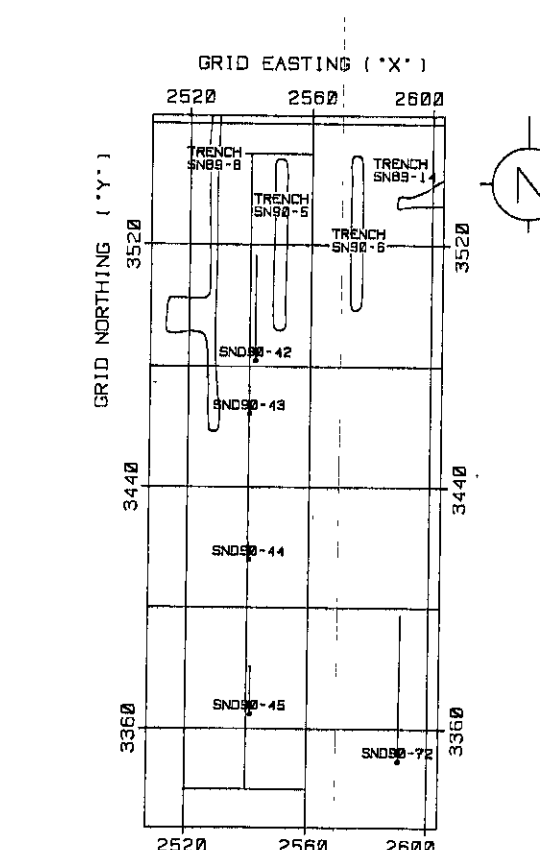
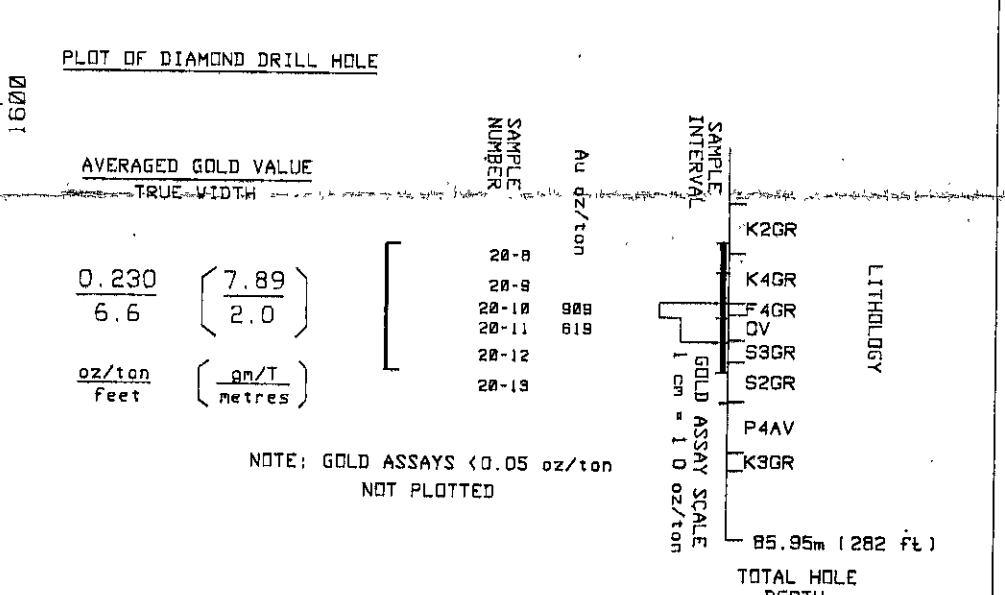
CORDILLERAN ENGINEERING LTD.  
1980 - 1055 V. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9

DRAWN BY: PVC  
DATE: APRIL 1991

PLATE 25



- LEGEND**
- LITHOLOGY**
- CS CASING
  - MI MISSING CORE
  - OS OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive-green, fine-grained to weakly porphyritic
  - GG GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - QV QUARTZ VEIN white to grey quartz with some anhedral; commonly 100 to 500 pyrite with lesser chloropyrite, sphalerite, galena, tetrahedrite; rare visible gold
- JURASSIC**
- OSPREY LAKE BATHOLITH**
- AP APLITE pink to light grey, very fine-grained with occasional pegmatitic veins
  - GD GRANDIODORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
  - GR GRANITE, GRANITIC (UNDYING) pink to pinkish grey, medium-grained, abundant K-spar, some hornblende
  - QH QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS**
- AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to aphanitic
  - (PV) PORPHYRITIC VOLCANIC as above, phenocrysts of plagioclase or hornblende
  - (VB) VOLCANIC BRECCIA as above, brecciated with andesitic matrix which may contain up to 25% pyrite-pyrrhotite-chalcopyrite
- ALTERATION CODES**
- Al) ARGILLIC P(n) PROPYLITIC
  - Ph) PHYLIC S(n) SERICITIC
  - FK K-spar STABLE PHYLIC SK SKARN
  - K(n) POTASSIC X(n) SILICIFICATION (n = 1 TO 5, WEAK TO INTENSE)
- SYMBOLS**
- lithological contact
  - - - trace of mineralized structure
  - ~ ~ ~ fault or shear
  - averaged trench sample interval



LOCATION OF THIS CROSS-SECTION

XL	YL	XR	YR
2540E	3348N	2540E	3550N
WIDTH	ZT	ZB	
40m	1660m	1535m	



**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**21,443**

APRIL 2013

**FAIRFIELD MINERALS LTD.**

**ELK PROPERTY**  
SIALUKAMEN MINING DIVISION, BRITISH COLUMBIA  
NTS 52H 18V

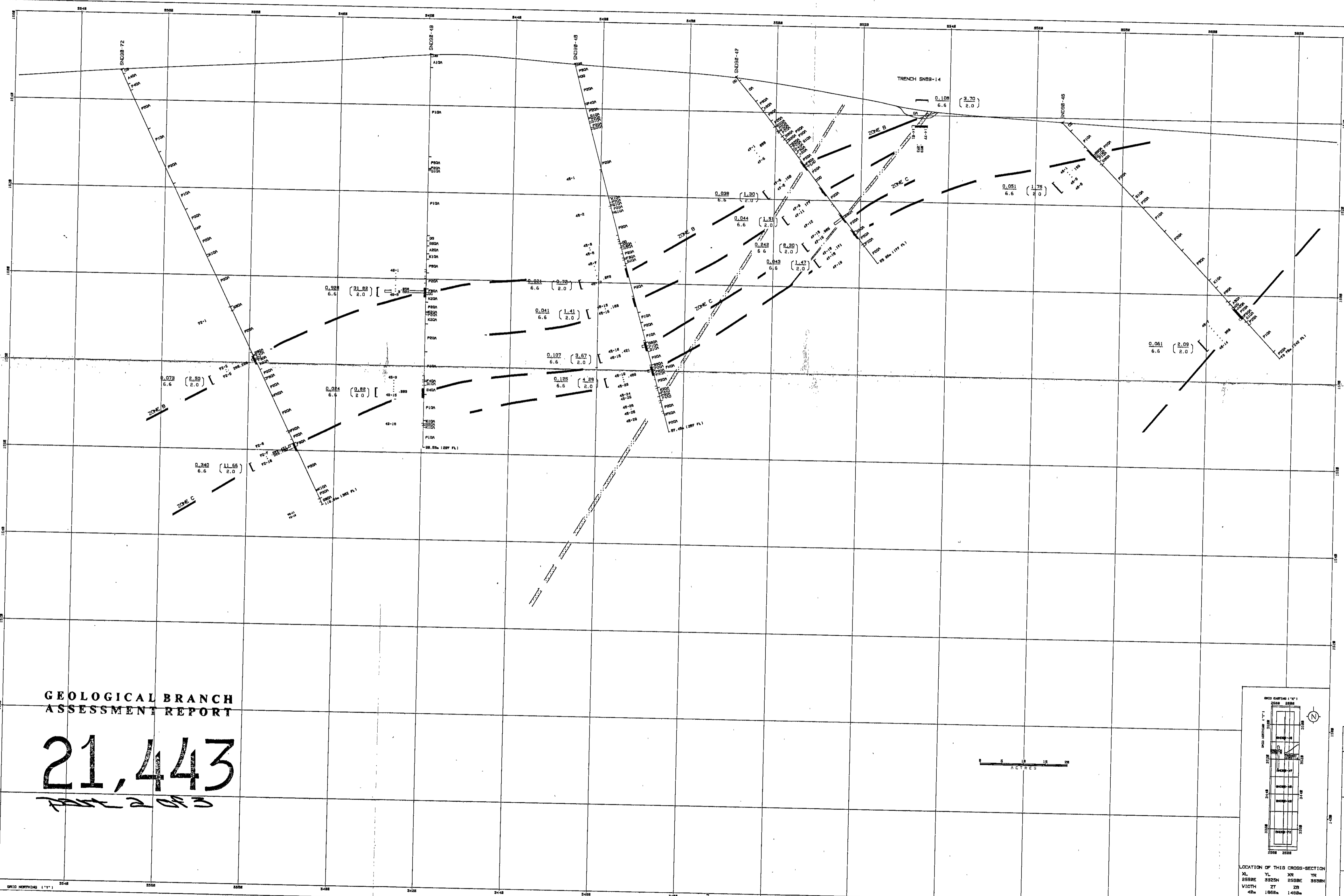
**SIWASH NORTH AREA**  
**DIAMOND DRILL SECTION 2540E**  
(LOOKING WEST)

SCALE = 1 : 250

CORILLERAN ENGINEERING LTD.  
1800 - 1855 W HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9

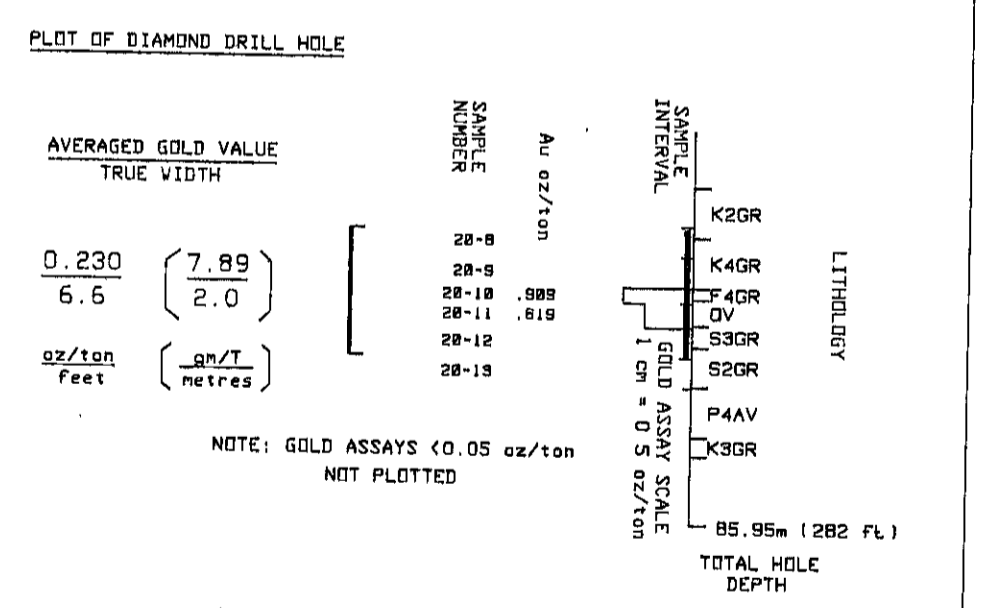
DRAWN BY: PJC  
DATE: APRIL 1991

PLATE 26



- LEGEND**
- LITHOLOGY**
- CS CASING
  - MI MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive-green. Fine-grained to weakly porphyritic
  - 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 30% pyrite with lesser chalcopyrite, sphalerite, galena, tetrahedrite; rare visible gold
- JURASSIC**
- DISPREY LAKE BATHOLITH
- AP APLITE pink to light grey, very fine-grained with occasional pegmatitic veins
  - GD GRANODIORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
  - GR GRANITE, GRANITIC (UNDIVIDED) pink to pinkish grey, medium-grained, abundant K-spar, some hornblende
  - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS
- AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to aphanitic
  - (PV) PORPHYRITIC VOLCANIC as above, phenocrysts of plagioclase or hornblende
  - (VB) VOLCANIC BRECCIA as above, brecciated with andesitic matrix which may contain up to 25% pyrite, sphalerite, chalcopyrite

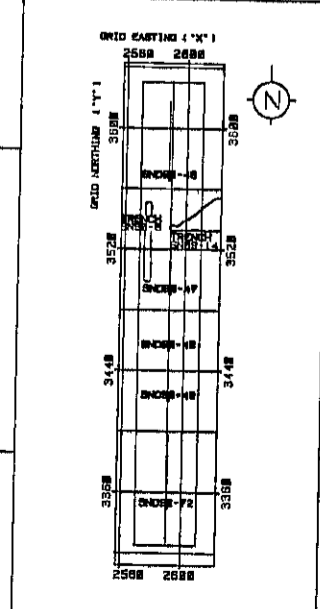
- ALTERATION CODES**
- A(n) ARGILLIC P(n) PROPYLITIC
  - F(n) PHYLIC S(n) SERICITIC
  - FK K-spar STABLE PHYLIC SK SKARN
  - K(n) POTASSIC X(n) SILICIFICATION
- (n = 1 TO 5, WEAK TO INTENSE)
- SYMBOLS**
- lithological contact
  - - - trace of mineralized structure
  - ~ fault or shear
  - averaged trench sample interval



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**21,443**

*Page 2 of 3*



LOCATION OF THIS CROSS-SECTION

XL	YL	XR	YR
2590E	9325N	2590E	9325N
VI07H	ZT	ZB	
48a	1668a	1468a	

**FAIRFIELD MINERALS LTD.**

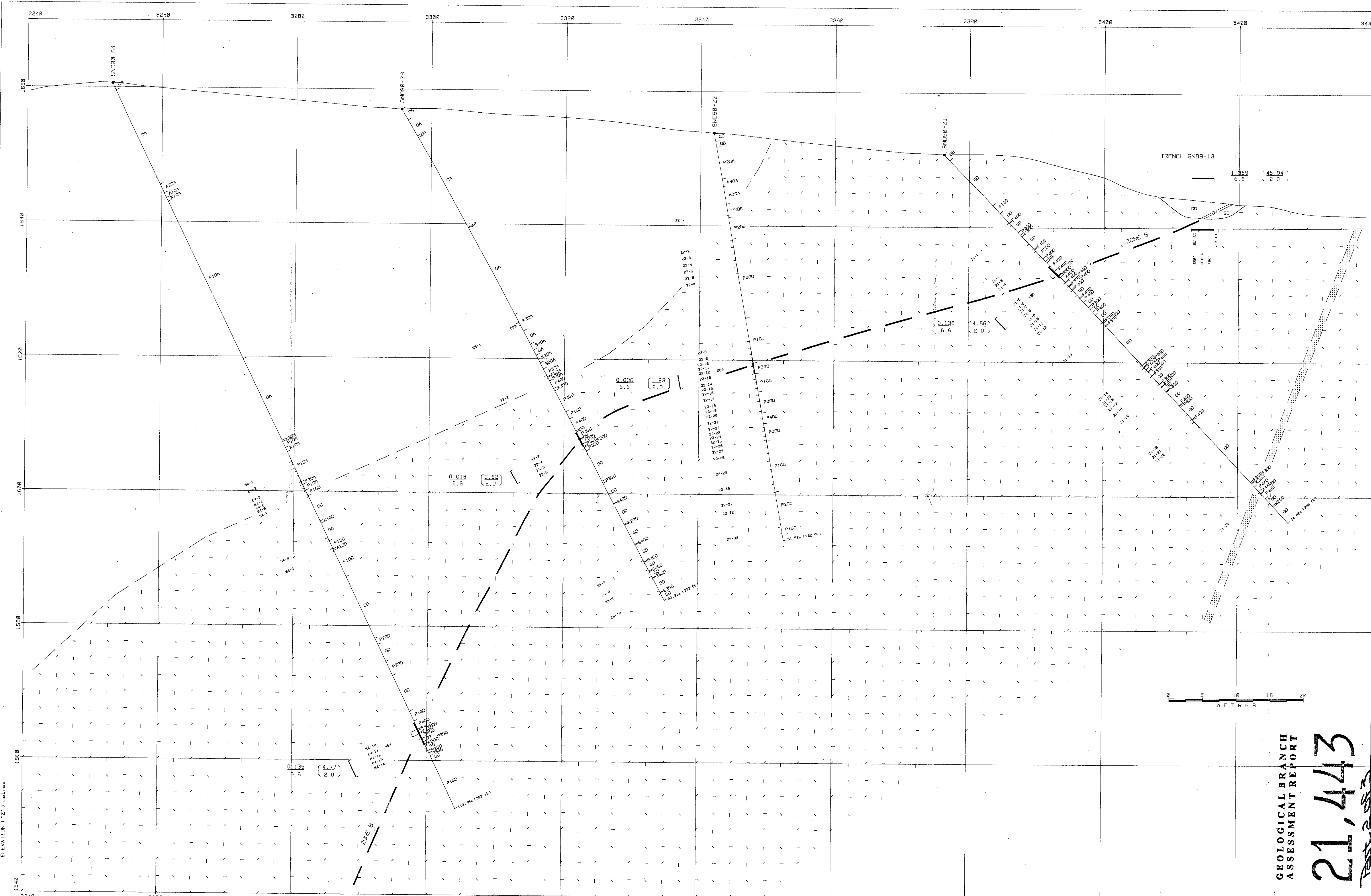
**ELK PROPERTY**  
SIALUKAHEEN MINING DIVISION, BRITISH COLUMBIA  
NTS 92H 15V

**SIWASH NORTH AREA**  
**DIAMOND DRILL SECTION 2590E**  
(LOOKING WEST)

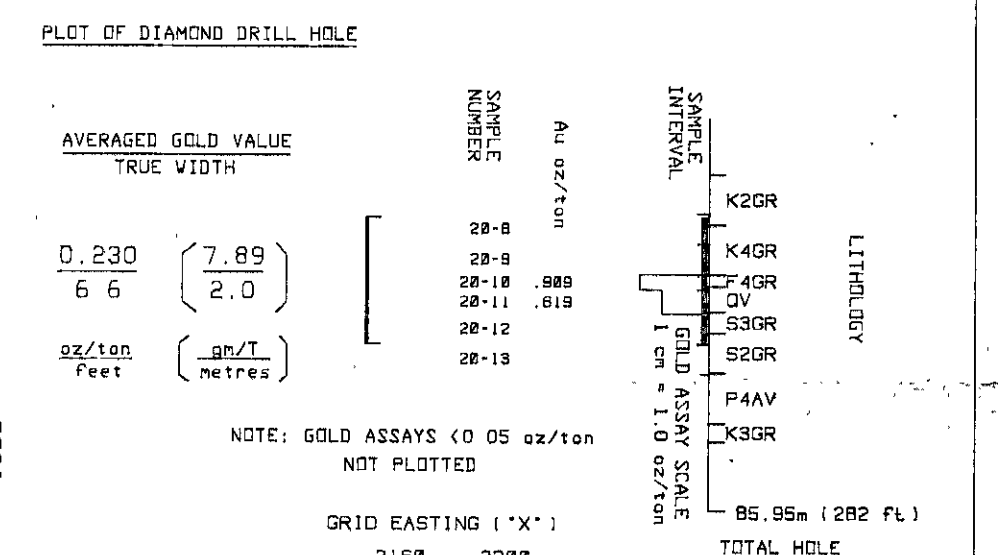
SCALE = 1 : 500

CORDILLERAN ENGINEERING LTD.  
1880 - 1855 V. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9

DRAWN BY: PWC  
DATE: APRIL 1991



- LEGEND**
- LITHOLOGY**
- CS CASING
  - MI MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive-green, fine grained to weakly porphyritic
  - GG GOUGE clay-rich with numerous rock fragments, when foliated or banding may be evident
  - QV QUARTZ VEIN white to grey quartz with some ankerite; commonly 100 to 300 pyrite with lesser chalcopryite, sphalerite, galena, tetrahedrite; rare visible gold
- JURASSIC**
- DISPREY LAKE BATHOLITH
- AP APLITE pink to light grey, very fine-grained with occasional pegmatitic veins
  - GD GRANDIODORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
  - GR GRANITE, GRANITIC (UNDIVERSED) pink to pinkish grey, medium-grained, abundant in-spar, some hornblende
  - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS
- AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to aphanitic
  - (PV) PORPHYRITIC VOLCANIC as above, phenocrysts of plagioclase or hornblende
  - (VB) VOLCANIC BRECCIA as above, brecciated with andesitic matrix which may contain up to 80% pyrite-pyrrhotite-chalcopryite
- ALTERATION CODES**
- An1 ARGILLIC P(n) PORPHYRITIC
  - Ph1 PHYLIC S(n) SERICITIC
  - FK K-spar STABLE PHYLIC SK SKARN
  - Kn1 POTASSIC X(n) SILICIFICATION
- (n = 1 TO 5, WEAK TO INTENSE)
- SYMBOLS**
- lithological contact
  - - - trace of mineralized structure
  - ~ ~ ~ Fault or shear
  - — — averaged trench sample interval



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**21,443**

*Page 2 of 2*

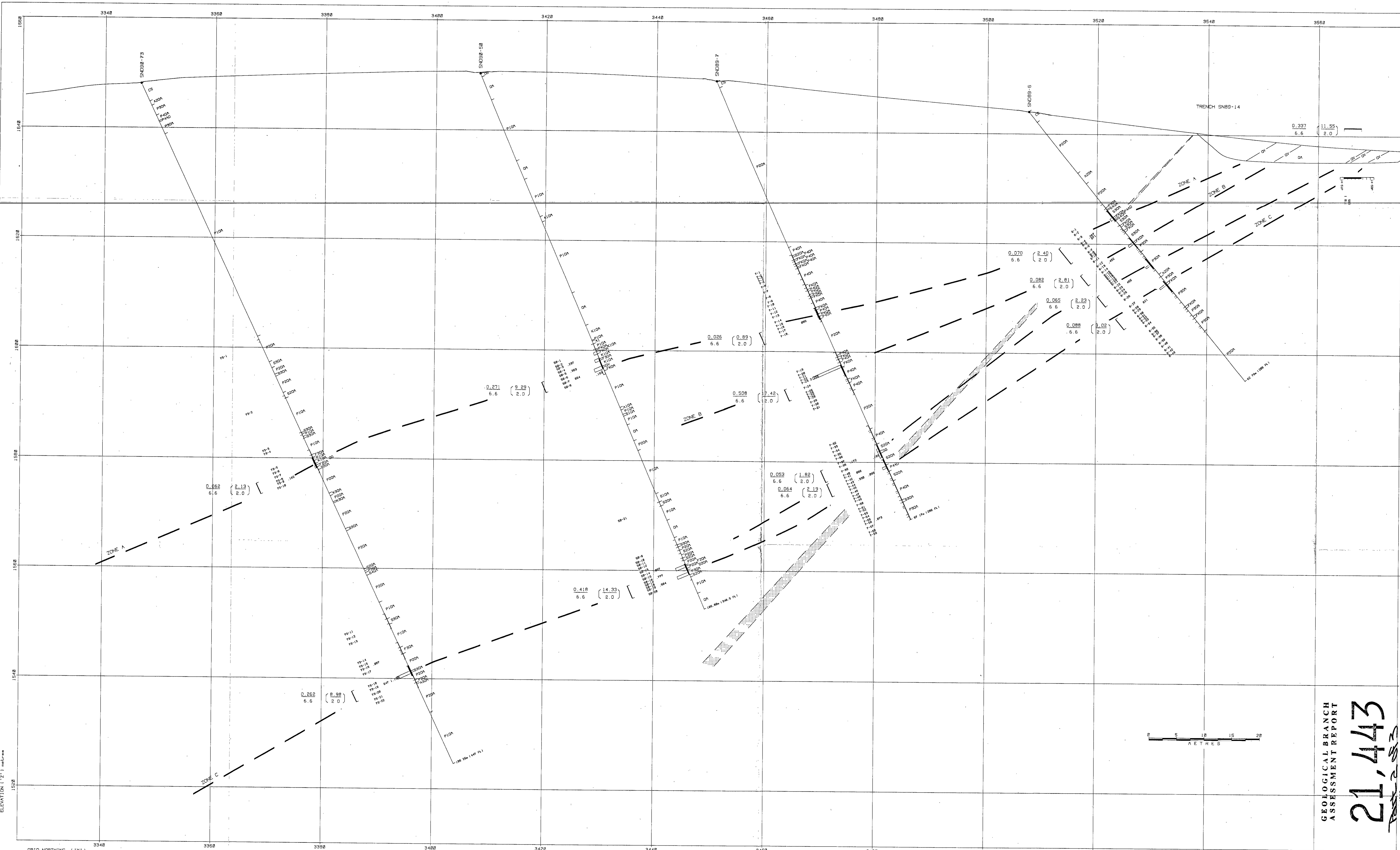
FAIRFIELD MINERALS LTD.

ELK PROPERTY  
STATUKAMEN MINING DIVISION, BRITISH COLUMBIA  
NTS 92H 16V

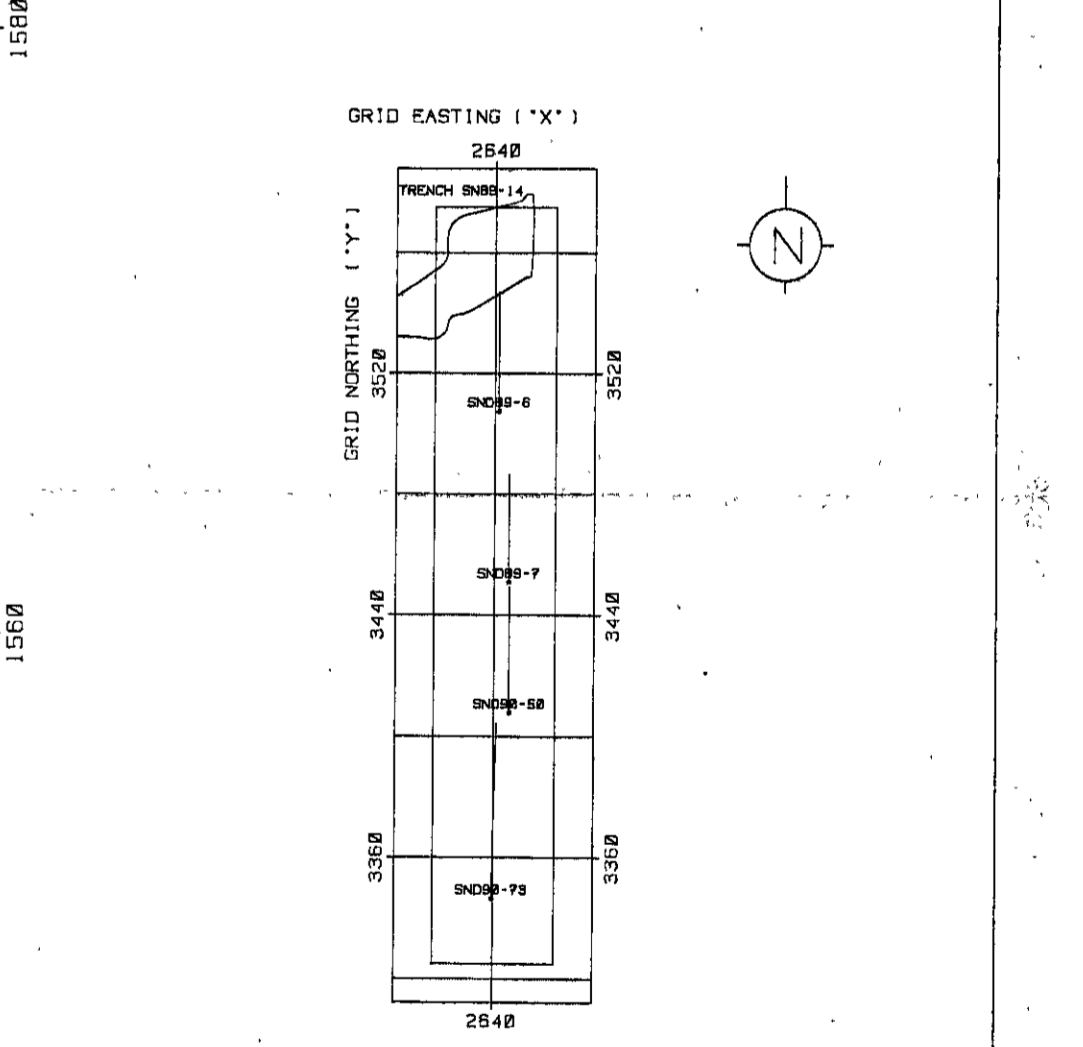
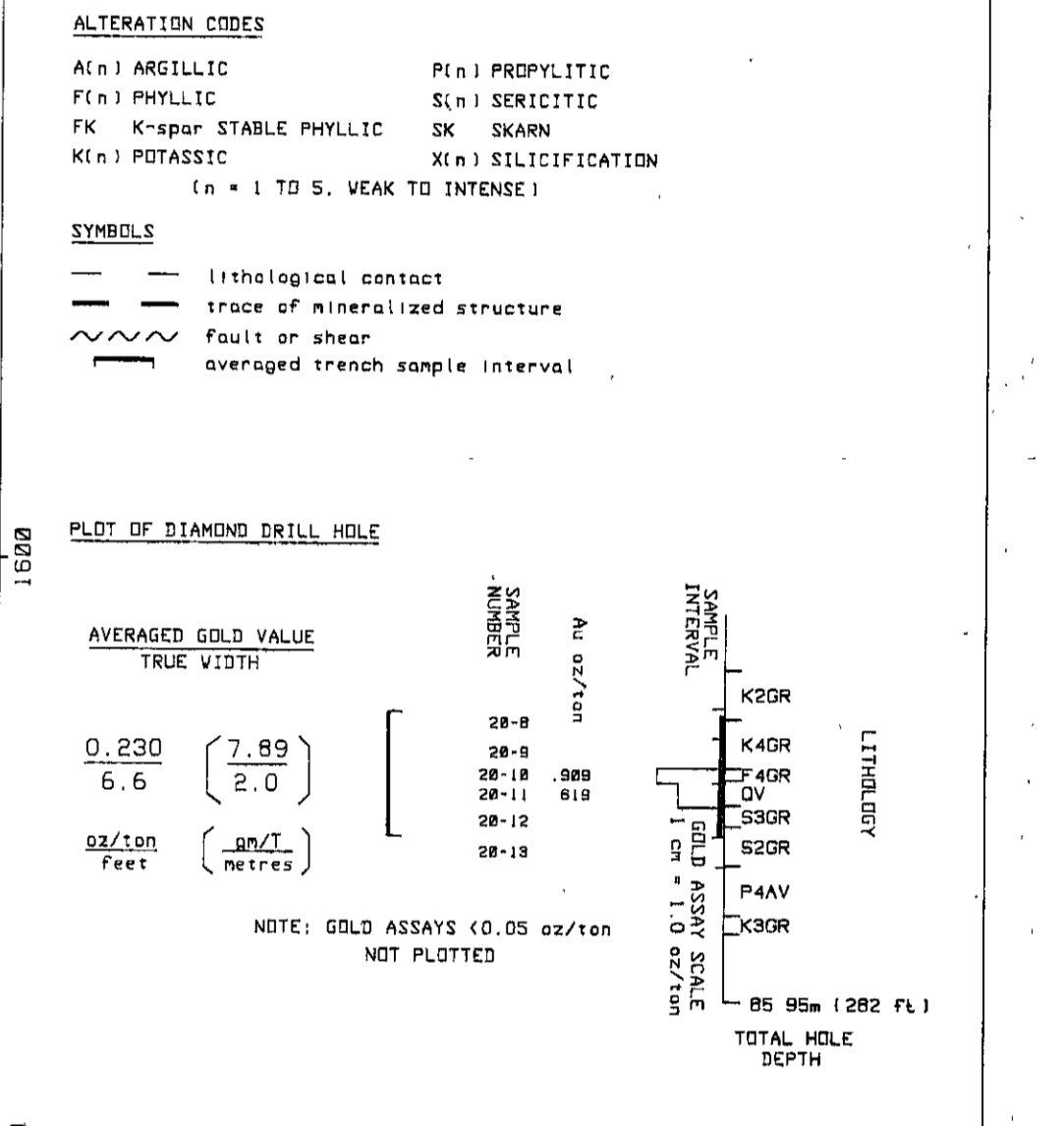
SIWASH NORTH AREA  
DIAMOND DRILL SECTION 2190E  
(LOOKING WEST)  
SCALE = 1 : 250

COROLLERAN ENGINEERING LTD.  
1890 - 1955 V. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9

DRAWN BY: PVC



- LEGEND**
- LITHOLOGY**
- CS CASING
  - MI MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE pink to greyish green to olive-green, fine-grained to medium-grained
  - BG GONGE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - DV QUARTZ VEIN white to grey quartz with some andesine commonly 100 to 200 microns with coarse, fibrous, amphibole, garnet, tetrahedral pure visible quartz
- JURASSIC**
- DISPREY LAKE BATHOLITH
- AP APLITE pink to light grey, very fine-grained with occasional granoblastic veins
  - GD GRANODIORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
  - GR GRANITE, GRANITIC (unzoned) pink to pinkish grey, medium-grained, abundant Kspgr, some hornblende
  - QH QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS**
- AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to aphanitic
  - (PV) PANGLOSSIC VOLCANIC as above, phenocrysts of plagioclase or hornblende
  - (VB) VOLCANIC BRECCIA as above, brecciated with andesine matrix which may contain up to 25% pyrite-granite-epidiorite
- ALTERATION CODES**
- AK) ARGILLIC
  - PK) POTASSIC
  - FK) K-spar STABLE PHYLIC
  - KIA) POTASSIC (n = 1 TO 5, WEAK TO INTENSE)
  - PI) PROPYLITIC
  - SI) SERICITIC
  - SK) SKARN
  - SI) SILICIFICATION
- SYMBOLS**
- lithological contact
  - - - trace of mineralized structure
  - ~ fault or shear
  - averaged trench sample interval



**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**  
**21,443**  
 P28 2 83

FAIRFIELD MINERALS LTD.

ELK PROPERTY  
 STALKAMEN MINING DIVISION, BRITISH COLUMBIA  
 NTS 92H 16V

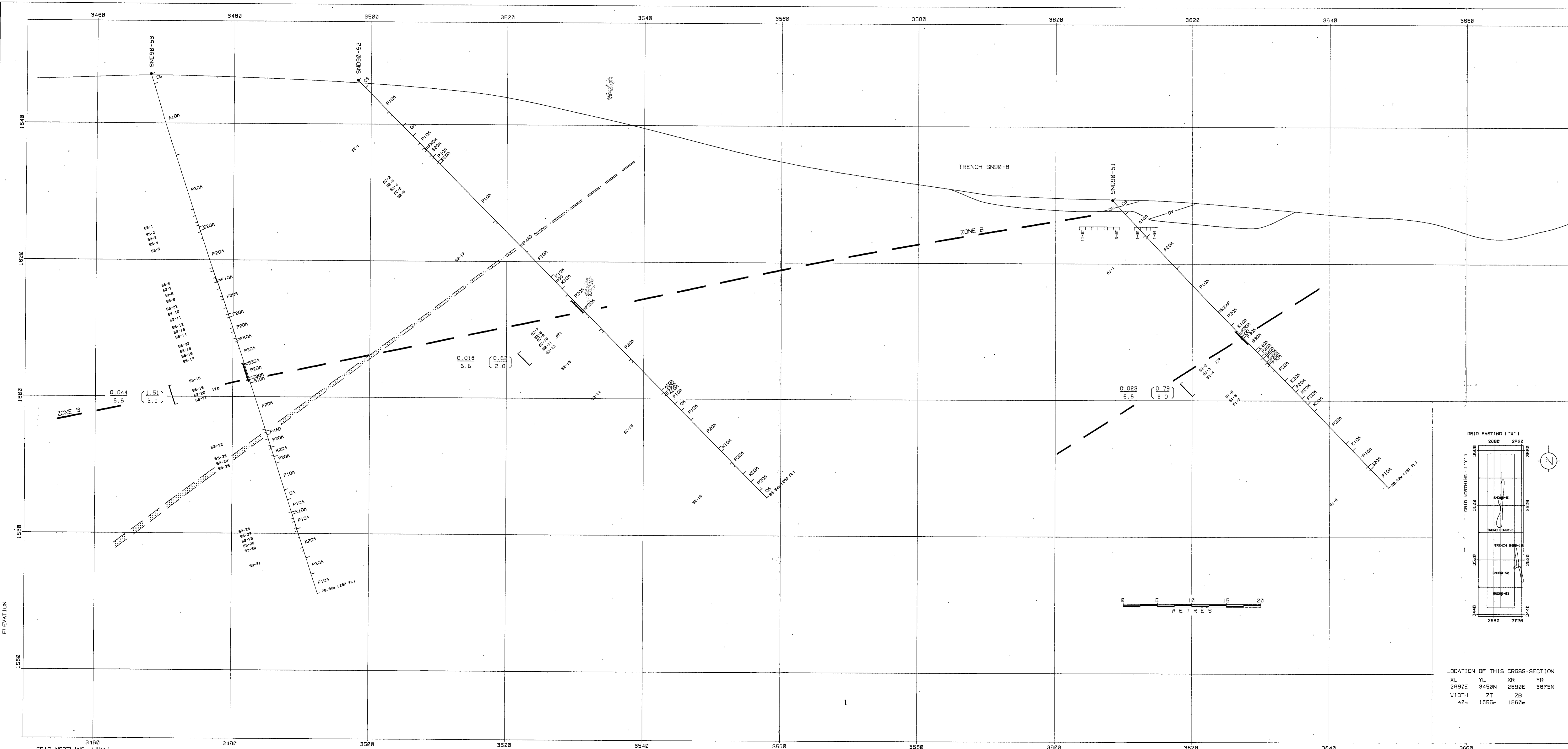
SIWASH NORTH AREA  
 DIAMOND DRILL SECTION 2640E  
 (LOOKING WEST)  
 SCALE = 1 : 250

CORDELLERAN ENGINEERING LTD  
 1900 - 1255 V. HASTINGS STREET  
 VANCOUVER, B. C. V6E 2E9

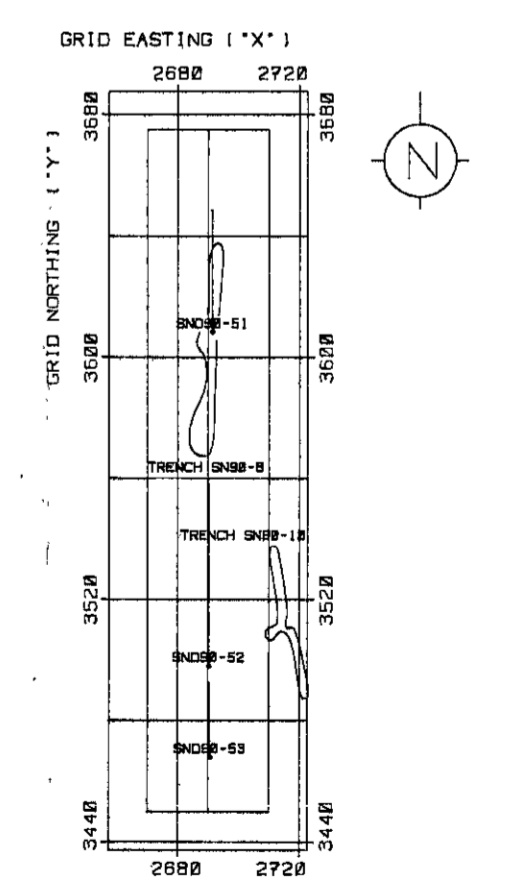
DRAWN BY: PJC  
 DATE: APRIL 1981

PLATE 28





- LEGEND**
- LITHOLOGY**
- CS CASING
  - MI MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive-green, fine-grained to weakly porphyritic
  - 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 150 to 300 g/t with lesser chlorite, sphalerite, galena, tetrahedrite; rare visible gold
- JURASSIC**
- OSPREY LAKE BATHOLITH**
- AP APLITE pink to light grey, very fine-grained with occasional pegmatitic veins
  - GD GRANDIODORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
  - GR GRANITE, GRANITIC (UNZONED) pink to pinkish grey, medium-grained, abundant K-spar, some hornblende
  - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS**
- AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to aphanitic
  - (PV) PORPHYRITIC VOLCANIC as above, phenocrysts of plagioclase or hornblende
  - (VB) VOLCANIC BRECCIA as above, brecciated with andesitic matrix which may contain up to 25% pyrite/pyrrhotite-chalcopyrite
- ALTERATION CODES**
- A(n) ARGILLIC P(n) PROPYLITIC
  - Ph(n) PHYLIC S(n) SERICITIC
  - FK K-spar STABLE PHYLIC SK SKARN
  - K(n) POTASSIC X(n) SILICIFICATION (n = 1 to 5, WEAK TO INTENSE)
- SYMBOLS**
- lithological contact
  - - - trace of mineralized structure
  - ~ fault or shear
  - averaged trench sample interval



**PLOT OF DIAMOND DRILL HOLE**

DEPTH (m)	TRUE WIDTH	AVERAGED GOLD VALUE	ALTERATION
28-0	2.0	7.89	K20R
28-8	2.0	7.89	K40R
28-10	2.0	7.89	QV
28-11	2.0	7.89	S20R
28-12	2.0	7.89	P44V
28-13	2.0	7.89	K30R

NOTE: GOLD ASSAYS (0.05 oz/ton) NOT PLOTTED

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

DATE: 06.05m (2002 FL) DEPTH

**21,443**

FAIRFIELD MINERALS LTD.

ELK PROPERTY

SIWASH NORTH AREA

DIAMOND DRILL SECTION 2690E

(LOOKING WEST)

SCALE = 1 : 250

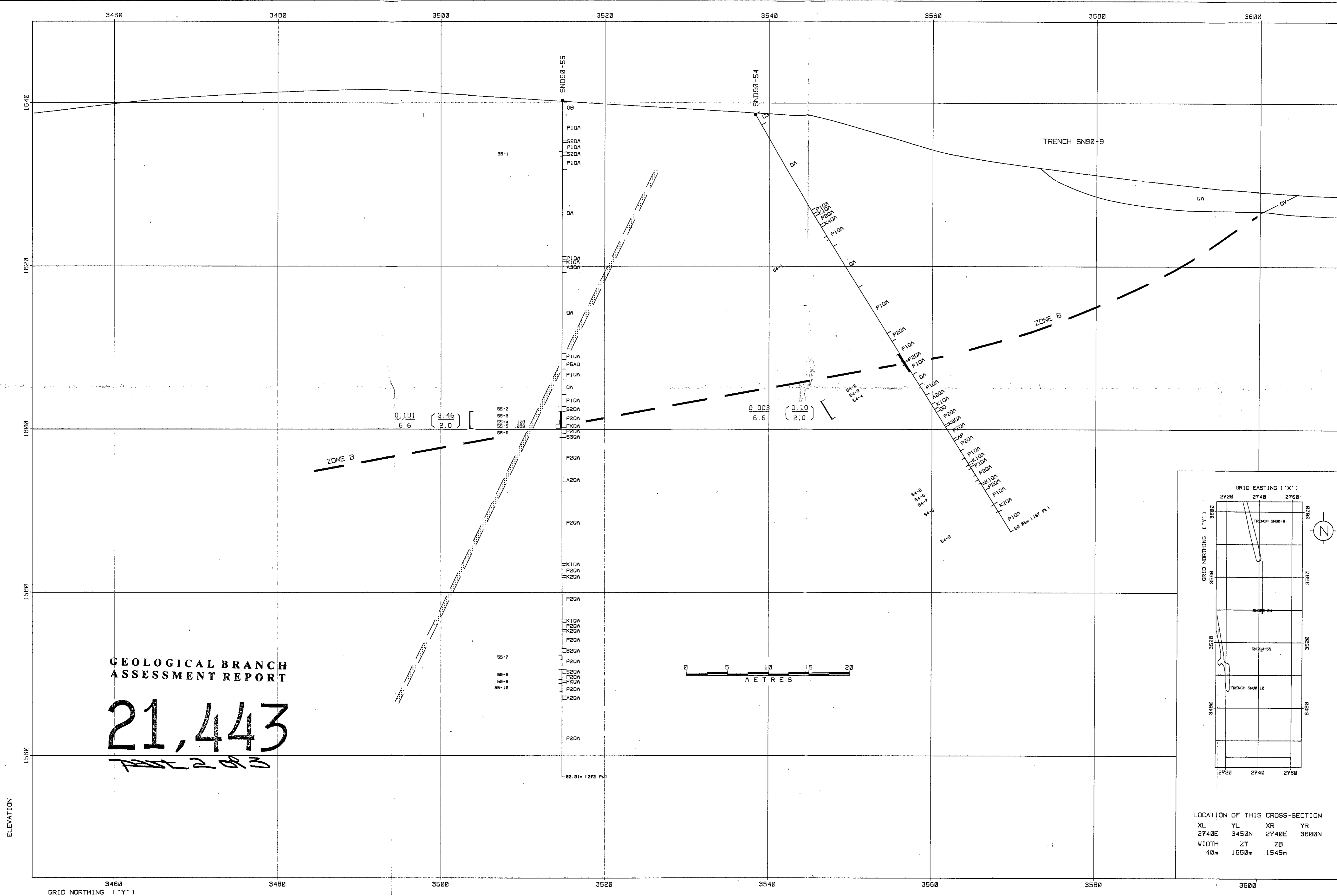
COROLLERAN ENGINEERING LTD  
1980 - 1855 W HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9

DRAWN BY: PWC  
DATE: APRIL 1991

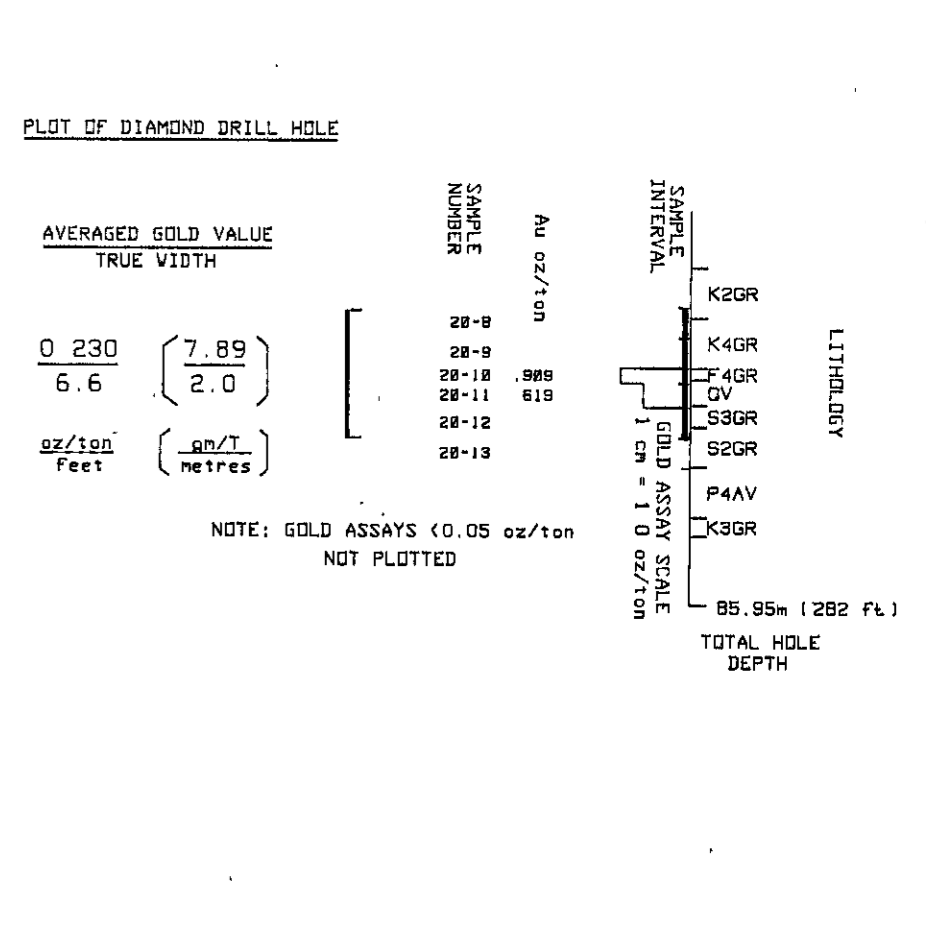
PLATE 29

LOCATION OF THIS CROSS-SECTION

XL	YL	XR	YR
2690E	3450N	2690E	3875N
WIDTH	ZT	ZB	
40m	1855m	1560m	



- LEGEND**
- LITHOLOGY**
- CS CASING
  - M1 MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive-green, fine-grained to weakly porphyritic
  - GG GUDGE 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 30% pyrite with lesser chalcopyrite, sphalerite, galena, tetrahedrite; rare visible gold
- JURASSIC**
- DISPREY LAKE BATHOLITH
- AP APLITE pink to light grey very fine-grained with occasional pegmatitic veins
  - GD GRANDIODORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
  - GR GRANITE, GRANITIC (UNDIVIDED) pink to pinkish grey medium-grained, abundant K-spar, some hornblende
  - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS
- AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to aphanitic
  - (PV) PORPHYRITIC VOLCANIC as above, phenocrysts of plagioclase or hornblende
  - (VB) VOLCANIC BRECCIA as above, brecciated with andesitic matrix which may contain up to 25% pyrite-pyrrothite-chalcopyrite
- ALTERATION CODES**
- A(n) ARGILLIC
  - F(n) PHYLIC
  - FK K-spar STABLE PHYLIC
  - K(n) POTASSIC
  - P(n) PROPYLITIC
  - S(n) SERICITIC
  - SK SKARN
  - X(n) SILICIFICATION
  - (n = 1 TO 5, WEAK TO INTENSE)
- SYMBOLS**
- lithological contact
  - - - trace of mineralized structure
  - ~ ~ ~ fault or shear
  - averaged trench sample interval



**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**21,443**

*1887 2 013*

LOCATION OF THIS CROSS-SECTION

XL	YL	XR	YR
2740E	3450N	2740E	3600N
WIDTH	ZT	ZB	
40m	1650m	1545m	

FAIRFIELD MINERALS LTD.

ELK PROPERTY

SIWILKAMEEN MINING DIVISION, BRITISH COLUMBIA  
NTS 92H 16V

SIWASH NORTH AREA

DIAMOND DRILL SECTION 2740E  
(LOOKING WEST)

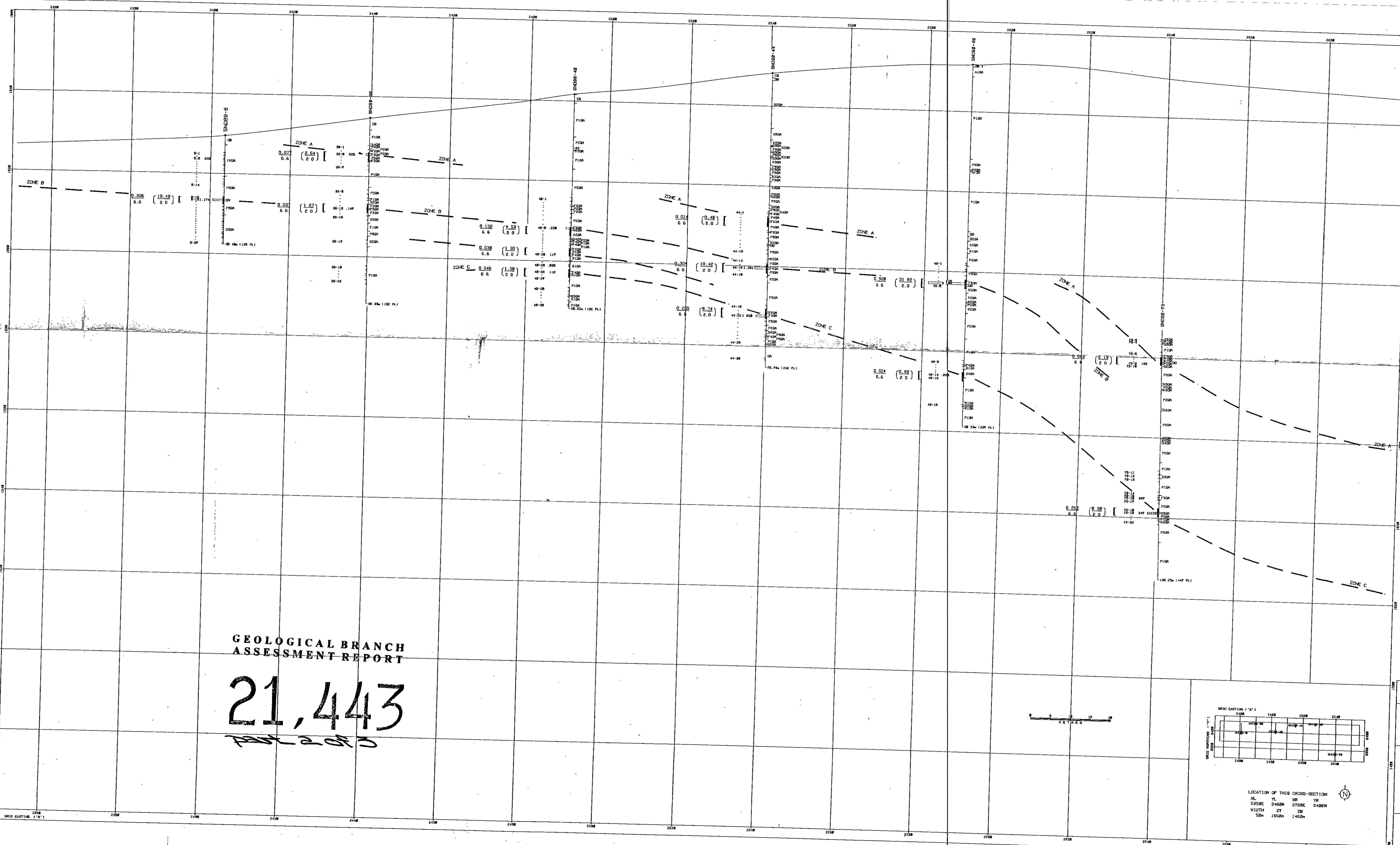
SCALE = 1 : 250

COROLLERAN ENGINEERING LTD.  
1880 - 1055 V. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9

DRAWN BY: PVC  
DATE: APRIL 1991

PLATE 30

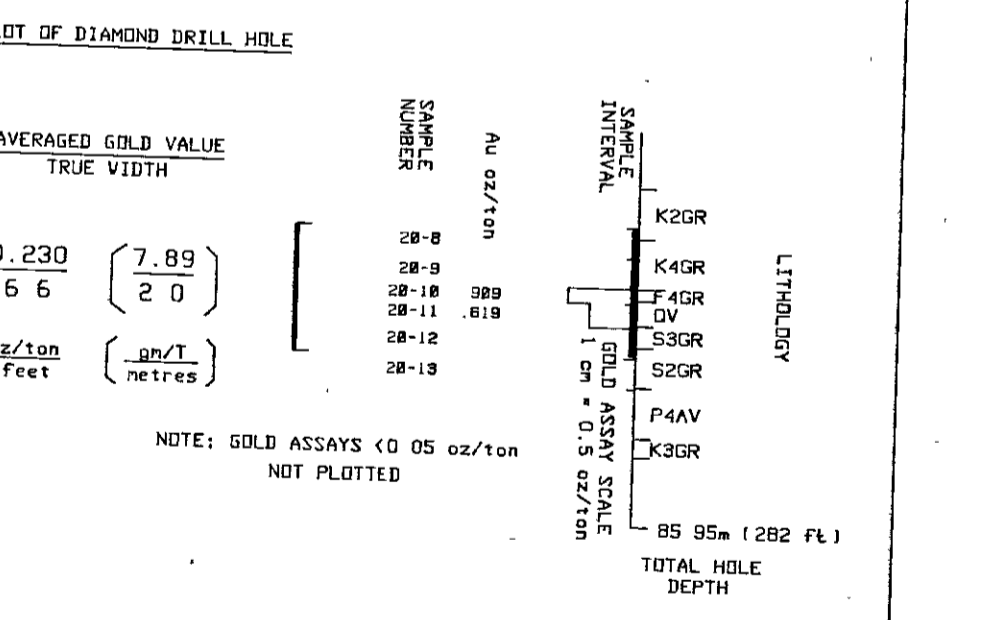




- LEGEND**
- LITHOLOGY**
- CS CASING
  - MI MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive-green, fine-grained to weakly porphyritic
  - GG GOUGE clay-rich with numerous rock fragments, shear foliation or banding may be evident
  - QV QUARTZ VEIN white to grey quartz with some ankerite commonly 10% to 30% pyrite with lesser chalcopyrite, sphalerite, galena, tetrahedrite; rare visible gold
- JURASSIC**
- DISPREY LAKE BATHOLITH
- AP APLITE pink to light grey, very fine-grained with occasional pegmatitic veins
  - GD GRANDIODRITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
  - GR GRANITE, GRANITIC (UNVIDEED) pink to pinkish grey, medium-grained, abundant K-spar, some hornblende
  - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS
- AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to aphanitic
  - (PV) PORPHYRITIC VOLCANIC as above, phenocrysts of plagioclase or hornblende
  - (VB) VOLCANIC BRECCIA as above, brecciated with andesitic matrix which may contain up to 25% pyrite/pyrrhotite-chalcopyrite

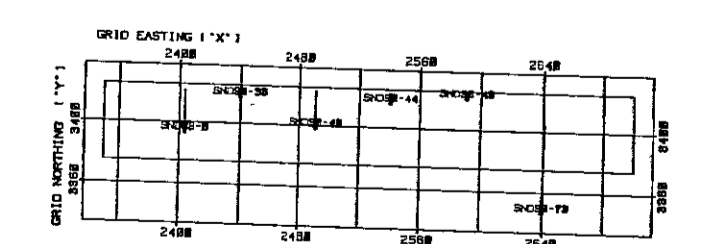
- ALTERATION CODES**
- A(n) ARGILLIC
  - F(n) PHYLIC
  - FK K-spar STABLE PHYLIC
  - K(n) POTASSIC
  - P(n) PROPYLITIC
  - SN SERICITIC
  - SK SKARN
  - X(n) SILICIFICATION
- (n = 1 TO 5, WEAK TO INTENSE)

- SYMBOLS**
- lithological contact
  - - - trace of mineralized structure
  - ~ fault or shear
  - averaged trench sample interval



**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**21,443**  
APR 20 1993



LOCATION OF THIS CROSS-SECTION  
 XL VL XR VR  
 235RE 340BN 278RE 340BN  
 WIDTH ZT ZB  
 50m 100m 140m

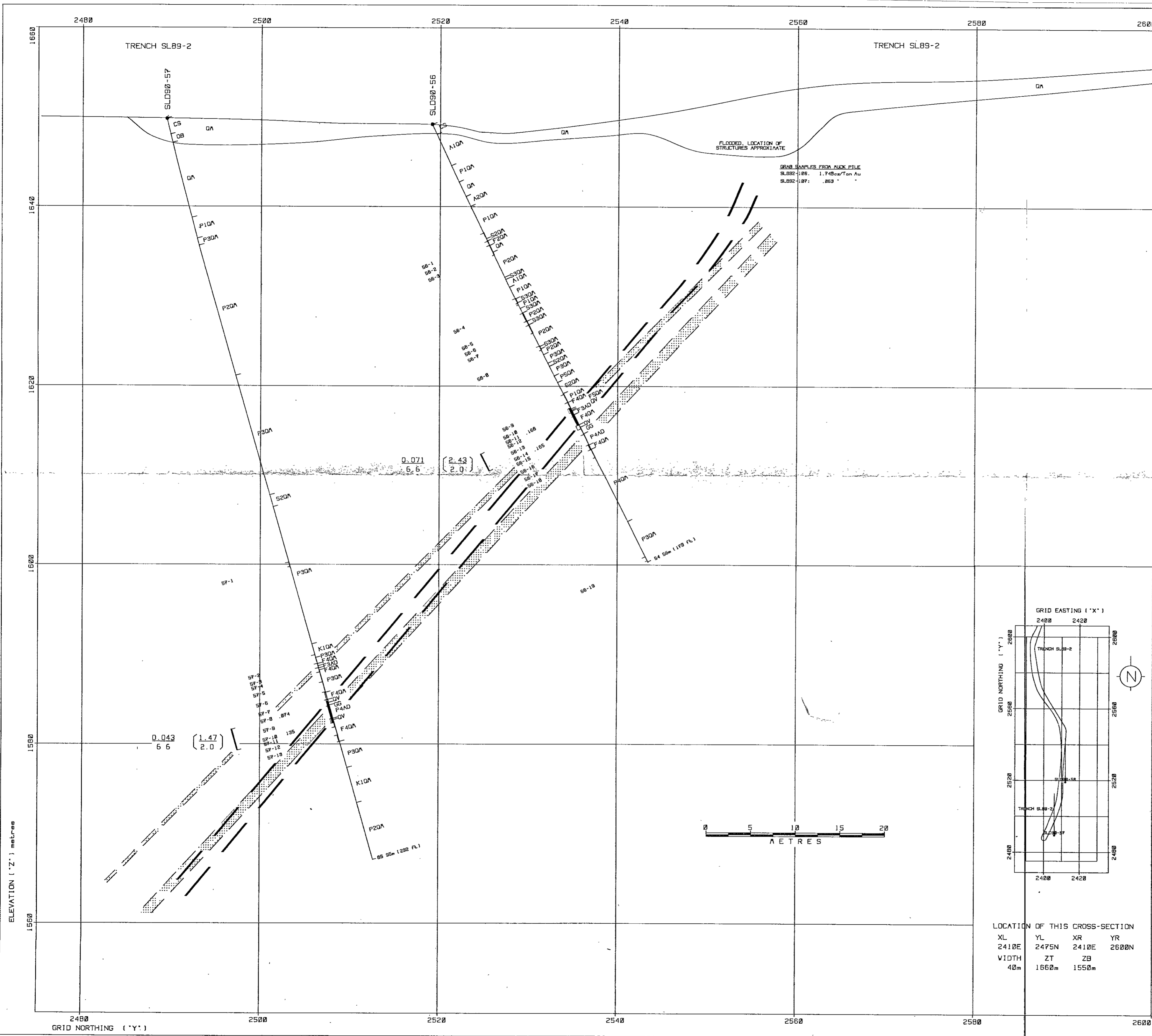
**FAIRFIELD MINERALS LTD.**

**ELK PROPERTY**  
 SIWASH NORTH AREA  
 DIAMOND DRILL SECTION 3400N  
 (LOOKING WEST)  
 SCALE = 1 : 500

CORILLERAN ENGINEERING LTD.  
 1880 - 1855 V. HASTINGS STREET  
 VANCOUVER, B.C. V6E 2E9

DRAWN BY: PVC  
 DATE: APRIL 1991

PLATE 32



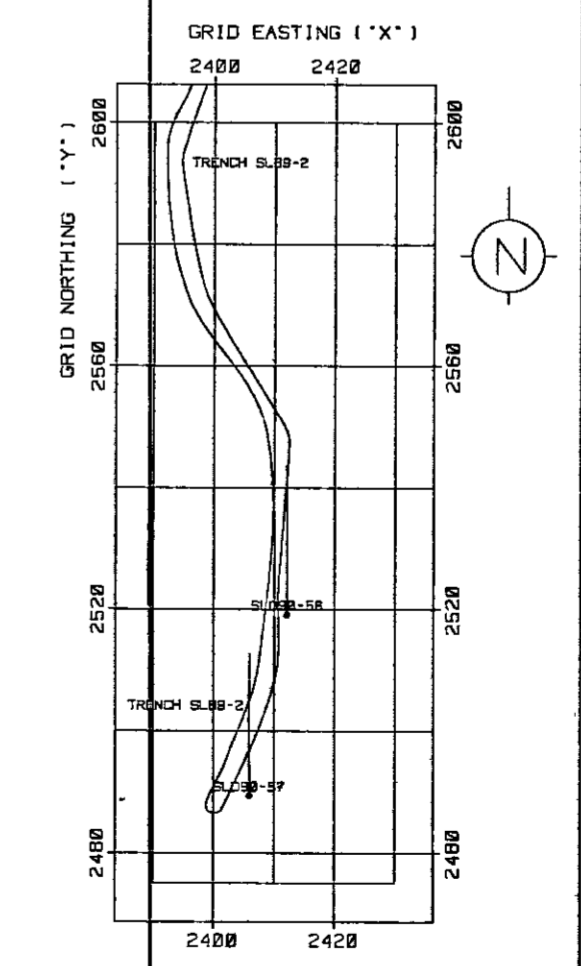
- LEGEND**
- LITHOLOGY**
- CS CASING
  - MI MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive-green. Fine-grained to weakly porphyritic.
  - GG GOUGE clay-rich with numerous rock fragments. shear foliation or banding may be evident
  - DV QUARTZ VEIN white to grey quartz, with some ankerite; commonly 10% to 30% pyrite with lesser chalcopyrite, sphalerite, galena, tetrahedrite; rare visible gold
- JURASSIC**
- DISPREY LAKE BATHOLITH
- AP APLITE pink to light grey, very fine-grained with occasional pegmatitic veins
  - GD GRANDDIORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
  - GR GRANITE, GRANITIC (UNDIVIDED) pink to pinkish grey, medium-grained, abundant K-spar, some hornblende
  - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS
- AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to aphanitic
  - (PV) PORPHYRITIC VOLCANIC as above, phenocrysts of plagioclase or hornblende
  - (VB) VOLCANIC BRECCIA as above, brecciated with andesitic matrix which may contain up to 25% pyrite/pyrrhotite-chalcopyrite
- ALTERATION CODES**
- A(n) ARGILLIC
  - F(n) PHYLIC
  - FK K-spar STABLE PHYLIC
  - K(n) POTASSIC
  - P(n) PROPYLITIC
  - S(n) SERICITIC
  - SK SKARN
  - X(n) SILICIFICATION
- (n = 1 TO 5, WEAK TO INTENSE)

- SYMBOLS**
- lithological contact
  - - - trace of mineralized structure
  - ~ ~ ~ fault or shear
  - averaged trench sample interval
- PLOT OF DIAMOND DRILL HOLE**

AVERAGED GOLD VALUE TRUE WIDTH	SAMPLE NUMBER	Au oz/ton	SAMPLE INTERVAL	LITHOLOGY
0.230	28-8	.989	K2GR	
6.6	28-9	.618	K4GR	
(7.89)	28-10		F4GR	
(2.0)	28-11		DV	
	28-12		S3GR	
	28-13		S2GR	
			F4AV	
			K3GR	

NOTE: GOLD ASSAYS < 0.05 oz/ton NOT PLOTTED

TOTAL HOLE DEPTH: 85.95m (282 FT.)



LOCATION OF THIS CROSS-SECTION

XL	YL	XR	YR
2410E	2475N	2410E	2600N
WIDTH	ZT	ZB	
40m	1660m	1550m	

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**21,443**

APR 2 1993

FAIRFIELD MINERALS LTD.

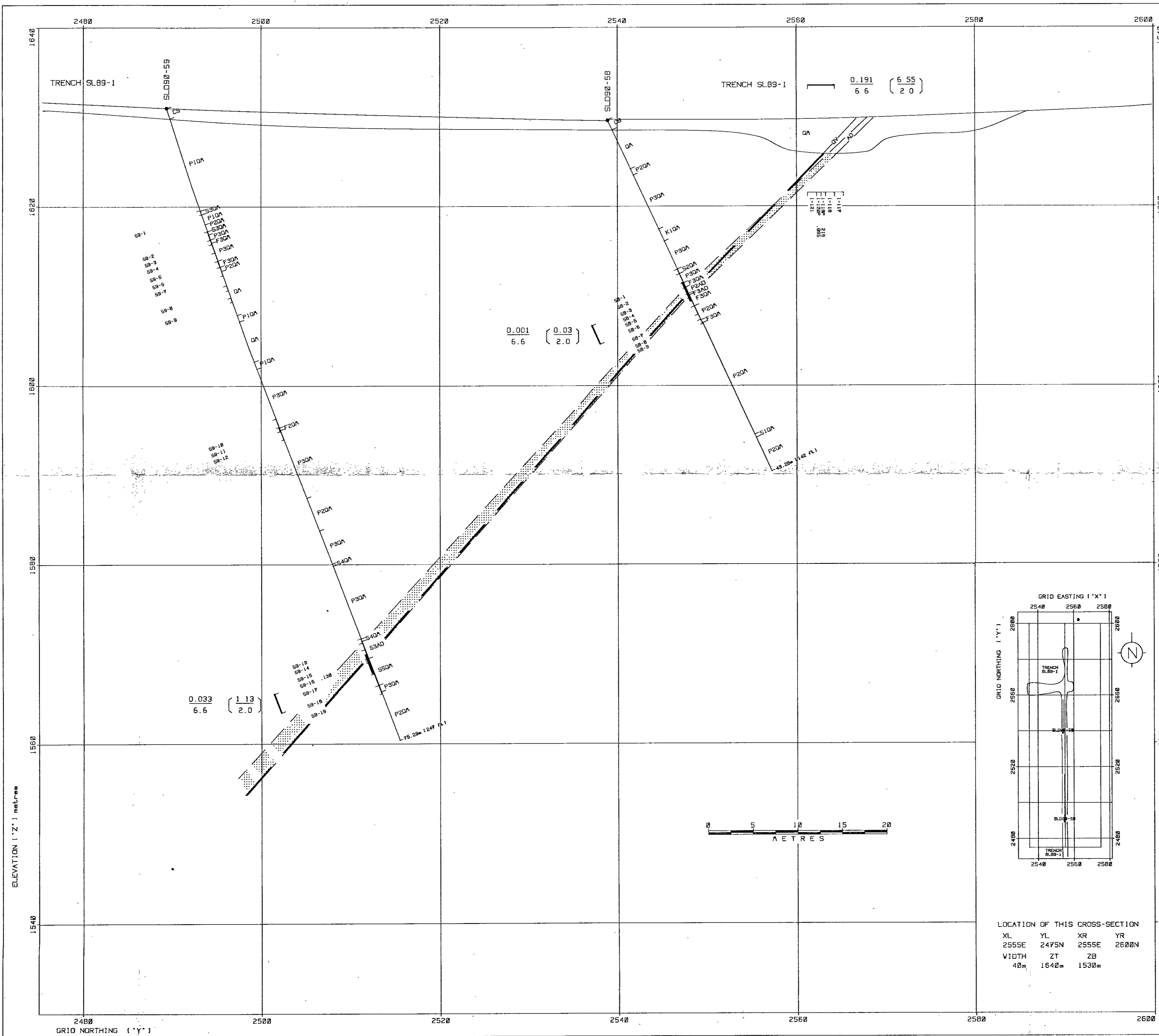
ELK PROPERTY  
SIWASH LAKE MINING DIVISION, BRITISH COLUMBIA  
NTS 92H 16V

SIWASH LAKE AREA  
DIAMOND DRILL SECTION 2410E  
(LOOKING WEST)  
SCALE = 1 : 250

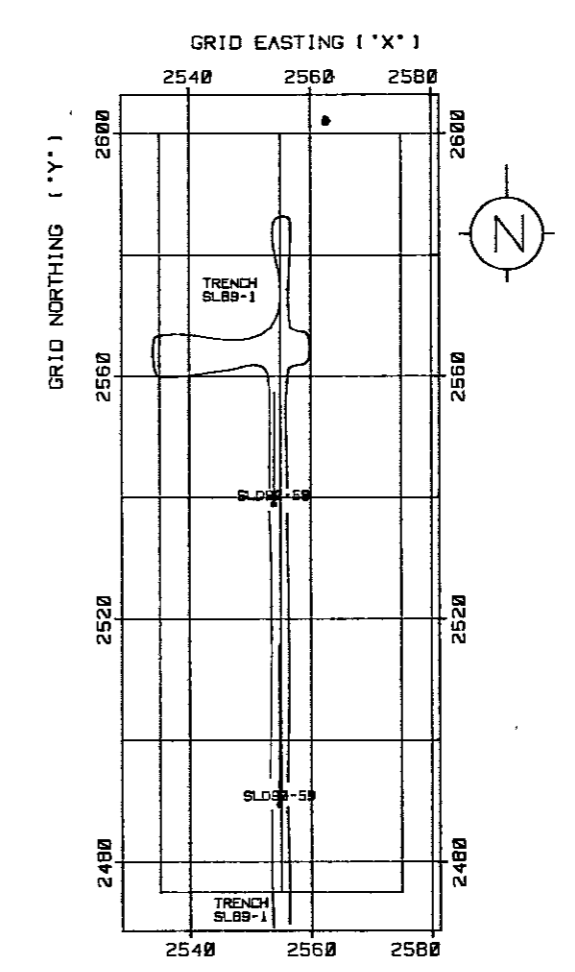
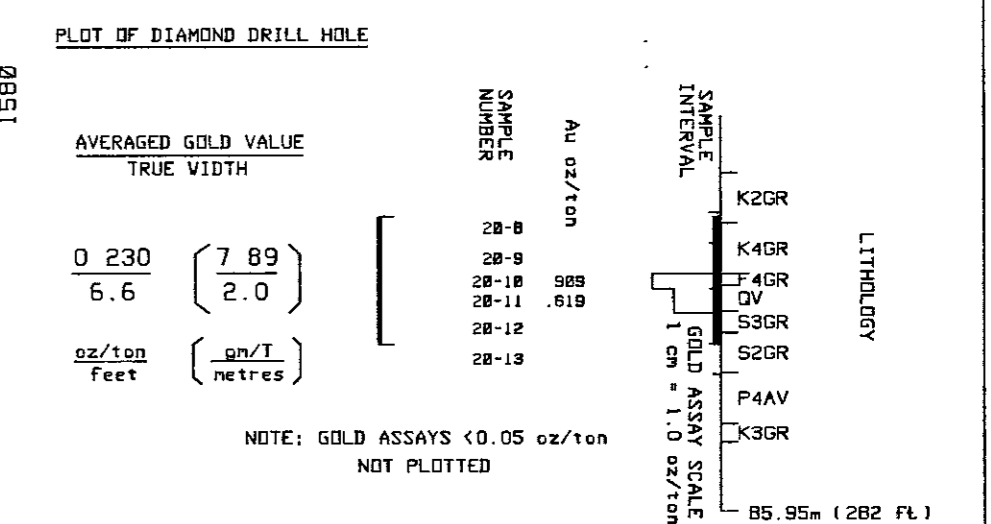
CORDILLERAN ENGINEERING LTD.  
1900 - 1055 V. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9

DRAWN BY: PVC  
DATE: APRIL 1991

PLATE 33



- LEGEND**
- LITHOLOGY**
- CS CASING
  - M1 MISSING CORE
  - OB OVERBURDEN
- TERTIARY**
- AD ANDESITE DYKE dark greyish-green to olive-green. Fine-grained to weakly porphyritic.
  - 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 30% pyrite with lesser chalcocopyrite, sphalerite, galena, tetrahedrite; rare visible gold
- JURASSIC**
- DISPREY LAKE BATHOLITH
- AP APLITE pink to light grey, very fine-grained with occasional pegmatitic veins
  - GD GRANDDIORITE medium to dark grey, fine to medium grained, up to 15% biotite or hornblende
  - GR GRANITE, GRANITIC (UNDIVIDED) pink to pinkish grey, medium-grained, abundant K-spar, some hornblende
  - QM QUARTZ MONZONITE light to medium pinkish grey, coarse grained equigranular with up to 15% biotite or hornblende
- TRIASSIC**
- NICOLA GROUP VOLCANICS
- AV ANDESITIC VOLCANIC dark grey-green to near black, very fine-grained to ophanitic
  - (PV) PORPHYRITIC VOLCANIC as above, phenocrysts of plagioclase or hornblende
  - (VB) VOLCANIC BRECCIA as above, brecciated with andesitic matrix which may contain up to 25% pyrite-pyrrothite-chalcocopyrite
- ALTERATION CODES**
- A(n) ARGILLIC P(n) PROPYLITIC
  - F(n) PHYLIC S(n) SERICITIC
  - FK K-spar STABLE PHYLIC SK SKARN
  - K(n) POTASSIC X(n) SILICIFICATION
- (n = 1 TO 5, WEAK TO INTENSE)
- SYMBOLS**
- lithological contact
  - - - trace of mineralized structure
  - ~ ~ ~ fault or shear
  - averaged trench sample interval



LOCATION OF THIS CROSS-SECTION

XL	YL	XR	YR
2555E	2475N	2555E	2600N
WIDTH	ZT	ZB	
40m	1640m	1530m	



**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**21,443**  
APR 2 1993

FAIRFIELD MINERALS LTD.

ELK PROPERTY  
SIWASH LAKE AREA, BRITISH COLUMBIA  
NTS 92H 16V

SIWASH LAKE AREA  
DIAMOND DRILL SECTION 2555E  
(LOOKING WEST)  
SCALE = 1 : 250

CORDILLERAN ENGINEERING LTD.  
1900 - 1055 V. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E9

DRAWN BY: PWC  
DATE: APRIL 1991

1540

1550

1560

1570

1580

1590

1600

1610

1620

1630

1640

2480

2500

2520

2540

2560

2580

2600

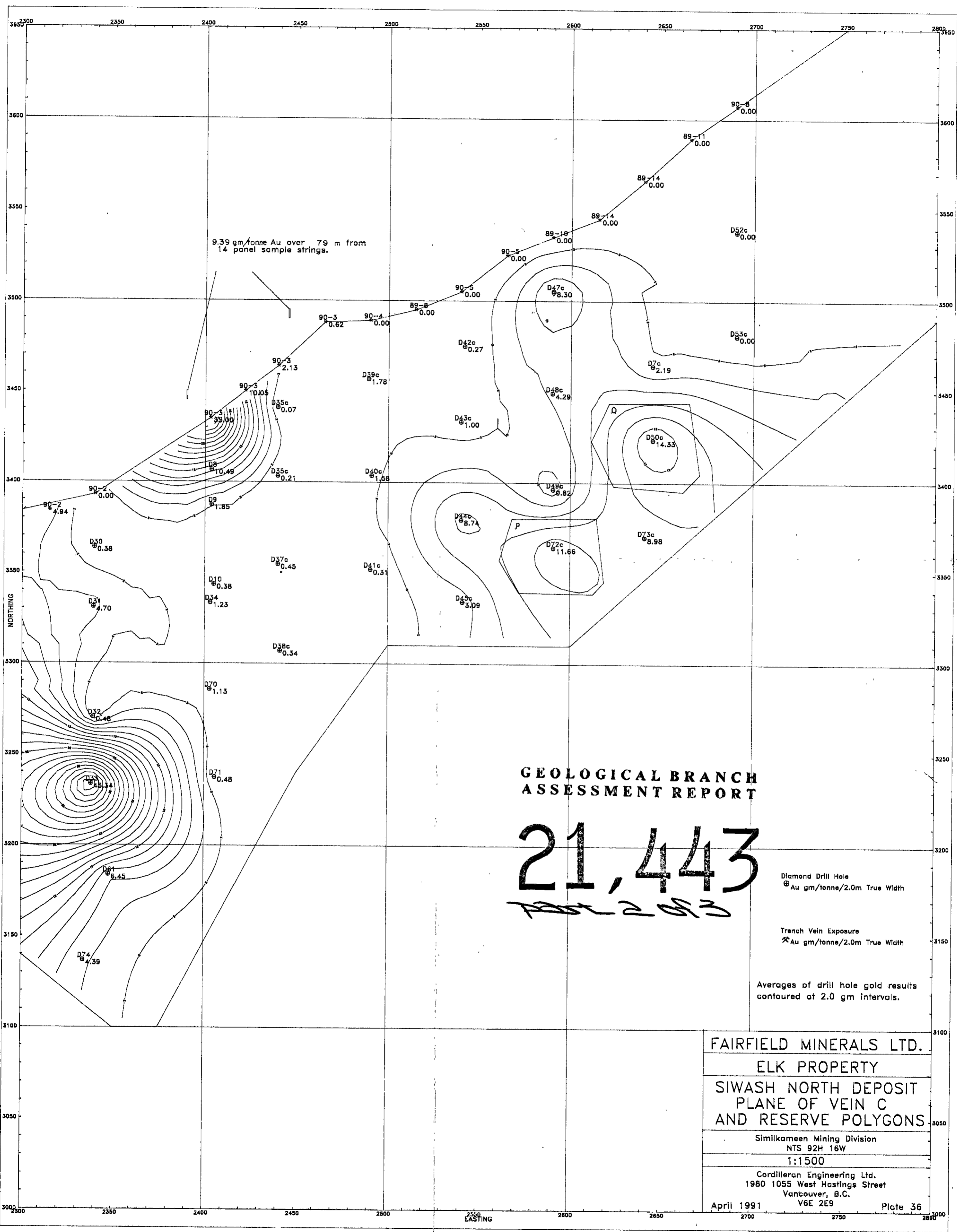
GRID NORTHING ( ' ' Y ' ' )

GRID EASTING ( ' ' X ' ' )

ELEVATION ( ' ' Z ' ' ) metres

PLATE 34





9.39 gm/tonne Au over 79 m from  
14 panel sample strings.

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**21,443**

*APR 2 1991*

Diamond Drill Hole  
⊕ Au gm/tonne/2.0m True Width

Trench Vein Exposure  
⊗ Au gm/tonne/2.0m True Width

Averages of drill hole gold results  
contoured at 2.0 gm intervals.

**FAIRFIELD MINERALS LTD.**  
**ELK PROPERTY**  
**SIWASH NORTH DEPOSIT**  
**PLANE OF VEIN C**  
**AND RESERVE POLYGONS**

Similkameen Mining Division  
NTS 92H 16W  
1:1500

Cordilleran Engineering Ltd.  
1980 1055 West Hastings Street  
Vancouver, B.C.

April 1991 V6E 2E9 Plate 36